# PROSPECTUS FOR ADMSSION TO PROFESSIONAL DEGREE COURSES 

[MEDICAL, AGRICULTURE, VETERINARY, ENGINEERING \& ARCHITECTURE COURSES]

## 2009

(Approved vide G. 0 (Rt.) No. 42/2009/ H. Edn. dated 08.01.2009)

OFFICE OF THE COMMSSOONER FOR ENTRANCE EXAMNATIONS
$5^{\text {th }}$ FLOOR, HOUSNG BOARD BUILDINGS, SANTHI NAGAR,
THIRUVANANTHAPURAM-695001
Phone: 0471-2332120, 2338487
www.cee-kerala.org

## KEAM-2009

## INFORMATION AT A GLANCE

1. Sale of Application Forms through notified branches of State Bank of Travancore (SBT)
2. Last date for sale of Application Form
: From 27.01.2009 (Tuesday)
3. Last date for receipt of Application Form
4. Date of despatch of Admit Card
: 26.02.2009 (Thursday)
: 26.02.2009 5 pm, (Thursday)
5. Date \& Time of Entrance Examination

| Engineering : | Physics \& Chemistry <br> Mathematics |  |
| :--- | :--- | :--- |
| Medical | $:$ | Chemistry \& Physics <br> Biology |

6. Centre of Examination
: 25.03.2009 (Wednesday)
:
: $\quad 20.04 .2009,10$ am to 12.30 pm
: $\quad 21.04 .2009,10 \mathrm{am}$ to 12.30 pm
: $\quad 22.04 .2009,10 \mathrm{am}$ to 12.30 pm
23.04.2009, 10 am to 12.30 pm
: $\quad$ As indicated in the Admit Card
7. Time Schedule for the Examination: (IST)
(a) Entry to the Examination Hall
9.30 am
(b) Distribution of Question Booklet
9.55 am
(c) Opening of the Question Booklet and commencement of examination
10.00 am
(d) Latest entry to the Examination Hall
(e) Conclusion of Examination
10.30 am
12.30 pm
8. Materials permitted in the examination hall
9. Rough work

Admit Card, Card Board/ Clip Board, Ball-Point pens (with Black or Blue ink only)
: All rough work are to be done in the Question Booklet only. The candidate shall not do any rough work or put stray mark(s) on the OMR answer sheet
10. Declaration of Results - Engineering/ Medical : On or before 25.05.2009
11. Centralised Allotment Process (CAP-2009)
: Will be notified Iater
12. Certificates/ documents to be produced at the time of admission
(a) Admit Card issued by CEE.
(b) Certificate to prove Date of Birth.
(c) Original Mark List to prove academic eligibility.
(d) Pass Certificate (if obtained).
(e) Any other documents as mentioned in clause 11.7.1.

## ©

GOVERNMENT OF KERALA 2009

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## CONTENTS

| Clause | ITEM | Page <br> No. |
| :---: | :--- | :---: |
| 1 | Introduction | 1 |
| 2 | Courses, Institutions and Seats | 2 |
| 3 | Duration of the courses | 3 |
| 4 | Reservation of seats for various courses | 3 |
| 5 | Claim for reservation and certificates to <br> be produced | 5 |
| 6 | Criteria of eligibility for admission |  |
| 7 | Application Forms for the Entrance <br> Examination(s) | 15 |


| Clause | ITEM | Page <br> No. |
| :---: | :--- | :---: |
| 8 | Submission of Application Forms | 22 |
| 9 | Examinations | 22 |
| 10 | Special Instructions to the candidates | 28 |
| 11 | Centralized Allotment Process (CAP) | 31 |
| 12 | Fees | 38 |
| 13 | Courses, Institutions - Special features | 40 |
| 14 | Other items | 41 |


| S. No | ANNEXURES | Page No. |
| :---: | :---: | :---: |
| 1 | Syllabi for the Entrance Examinations | 42 |
| II (1) | List of Engineering colleges | 60 |
| II (2) | Engineering courses - Distribution of seats under Special Reservation | 66 |
| III (1) | List of Medical \& Dental Colleges | 68 |
| III (2) | MBBS / BDS courses - Distribution of seats under Special Reservation | 70 |
| III (3) | MBBS / BDS courses - Central Government Reserved seats | 71 |
| IV (1) | List of Homoeopathic Medical colleges | 71 |
| IV (2) | BHMS course - Distribution of seats under Special Reservation | 72 |
| V (1) | List of Ayurveda colleges | 72 |
| V (2) | BAMS course - Distribution of seats under Special Reservation | 73 |
| VI (1) | Sidha (BSMS) Course -Distribution of seats | 73 |
| VII (1) | Courses under the Kerala Agricultural University | 73 |
| VII (2) | Agricultural \& Allied courses Distribution of seats under Special Reservation | 74 |
| VIII | List of Scheduled Castes | 75 |
| IX | List of Scheduled Tribes | 76 |


| S. No | ANNEXURES | Page No. |
| :---: | :---: | :---: |
| X | List of Other Eligible Communities | 76 |
| XI | List of Socially \& Educationally Backward Classes | 76 |
| XII | Guidelines for the issue of 'Certificate Showing School Studies in Kerala' | 77 |
| XIII (a) | Proforma Certificate for reservation under Ex-Service men / Dependant of Defence Personnel Killed / Missing/ Disabled in action / Died-in-harness categories | 78 |
| XIII (b) | Proforma Certificate for reservation under Serving Defence Personnel / Paramilitary Force personnel categories | 78 |
| XIV | Proforma Certificate for Service Candidates / Nominees / Departmental Candidates | 79 |
| XV | Proforma for Inter-caste Marriage Certificate | 79 |
| XVI | Proforma for Income Certificate for Children of Agriculturists / Fishermen | 80 |
| XVII <br> (a) | Proforma for Physical Fitness Certificate <br> - Forestry Course | 81 |
| XVII <br> (b) | Proforma for Physical Fitness Certificate <br> - Engineering / Medical / Agricultural/ <br> Veterinary Courses | 81 |
| XVIII <br> (i) | Guidelines for issuing Income Certificate | 82 |
| XVIII <br> (ii) | Kerala Sports Council - Norms Admission to Professional Courses | 84 |
| XIX | Proforma for Authorisation Letter for the Centralised Allotment Process (CAP) | 87 |
| XX | Instructions for filling up the Application Form \& OMR Data Sheet | 89 |
| XXI | Important clauses of Prospectus and Instructions for filling up the Application Form - Malayalam version | 100 |
| XXII | Details of Online Counseling in Malayalam | 124 |

## 1. INTRODUCTION

1.1 Prospectus for Admission to Professional Degree Courses, 2009, which has been approved by the Govt. of Kerala, is published herewith. It contains general information and rules relating to the Entrance Examinations for Admission to Professional Degree Courses, 2009, and other connected matters. Candidates are required to go through the Prospectus carefully and acquaint themselves with all the relevant information relating to the examinations. Candidates are also requested to visit the official website of the Commissioner for Entrance Examinations 'www.cee-kerala.org' regularly for notifications and announcements.
1.2 The prospectus issued in earlier years is not valid for the year 2009.
1.3 This prospectus sets out the rules and regulations for selection and admission to the following professional degree courses conducted by the various authorities within the State of Kerala.
1.3.1 Engineering courses:

Bachelor of Technology (B.Tech.)
B.Tech. (Agricultural Engineering) [ B.Tech. (Agri. Engg.)]
B.Tech. (Dairy Science \& Technology) [B.Tech. (D. Sc. \& Tech.)]

### 1.3.2 Architecture Course :

Bachelor of Architecture (B.Arch.)

### 1.3.3 Medical courses :

Bachelor of Medicine and Bachelor of Surgery (MBBS)
Bachelor of Dental Surgery (BDS)
Bachelor of Ayurvedic Medicine and Surgery (BAMS)
Bachelor of Siddha Medicine and Surgery (BSMS)
Bachelor of Homoeopathic Medicine and Surgery (BHMS)

### 1.3.4 Agricultural \& Allied courses:

Bachelor of Science-Agriculture [BSc. Hons. (Ag.)]
Bachelor of Fisheries Science (BFSC.)
Bachelor of Science-Forestry [BSC. Hons. (Forestry)]

### 1.3.5 Veterinary Course :

Bachelor of Veterinary Science \& Animal Husbandry (BVSc. and AH)
1.4 Admissions to the above courses except Architecture are regulated on the basis of merit as assessed in the Engineering/ Medical Entrance Examinations conducted by the Commissioner for Entrance Examinations (CEE). The details of seats, to which admissions are made through the Entrance Examinations, are given in the relevant paragraphs. For admissions to the Architecture course*, the merit as assessed by giving equal weightage to the marks obtained in the 'National Aptitude Test in Architecture' [NATA], conducted by the National Institute of Advanced Studies in Architecture (NIASA), and the grade/marks in the qualifying examination will be the criterion. [*As per directives, of the Council of Architecture, India.]
1.5 This Prospectus is subject to modification/addition/deletion, as may be deemed necessary by the Government.
1.6 Allotment of seats from the State Rank Lists for all courses in Self-financing colleges will be made in accordance with the orders of the Hon'ble Supreme Court of India / Hon'ble High Court of Kerala or orders of the Govt. of Kerala/ Govt. of India/ as per the law in existence at the time of Centralised Allotment process (CAP) and will be notified separately.

## 2. COURSES, INSTITUTIONS AND SEATS

2.1 Categorization of Seats in Government and Aided Institutions:
2.1.1 Government seats : Merit seats against which the Commissioner for Entrance Examinations makes allotment are called 'Government Seats'.
2.1.1(a) Government seats are available in all the Govt. and Aided Colleges.
2.1.1(b) The availability of Government seats in Self-financing Colleges run by institutions under Govt. control and other Private Self-financing colleges will be notified separately.
2.1.2 Management Seats are the seats set apart in the Aided institutions, to be filled up by the Managements concerned.
2.2 Categorization of Seats in Self-Financing Institutions:

The categorization of seats in Self-financing Colleges run by institutions under Govt. control and other Private Self-financing colleges will be notified separately.
2.3 Engineering Courses:
2.3.1 The B.Tech. Degree courses affiliated to various Universities in Kerala, under the semester scheme of studies comprise eight semesters.
2.3.2 The B.Tech. (Agricultural Engineering) and the B.Tech. (Dairy Science \& Technology) courses under the Kerala Agricultural University [KAU].
2.3.3 The list of Engineering Colleges and the courses/ branches offered are given in Annexure II (1). The list is not complete. The final list will be published by the CEE, prior to commencement of the Centralised Allotment Process, 2009 (CAP - 2009).
2.4 Architecture Course : B.Arch. Degree course extends over 10 semesters including one semester for practical training and one semester for thesis work. (Refer to Annexure II (1) for the Institutions offering the B.Arch. Course). The list is not complete. The final list will be published prior to commencement of the CAP - 2009.
2.5 Medical Courses:
2.5.1 The Medical courses include MBBS, BDS, BAMS, BSMS \& BHMS.
2.5.2 The list of institutions in which Medical courses are offered, the number of seats available, etc. are given in Annexure III (1), IV (1), V (1) \& VI (1). The list is not complete. The final list will be published prior to the commencement of CAP-2009.
2.6 Agricultural and Allied Courses: The list of colleges, the courses offered, the number of seats available, etc. are given in Annexure VII (1).
2.7 Veterinary Course : The list of Veterinary colleges, the number of seats available, etc. are given in Annexure VII (1).
2.8 Allotment and admission to all Colleges/ Courses under Engineering/ Architecture/ Medical/ Agriculture/ Veterinary streams will be subject to receipt of approval of the Central and State Regulatory Bodies, Universities and Government.
3. DURATION OF THE COURSES

| Course | Duration <br> (Years) | Compulsory rotating internship |
| :--- | :---: | :---: |
| MBBS, BHMS, BAMS | $41 / 2$ | 12 months programme |
| BDS | 5 | 6 months |
| BSMS | 5 | 6 months |
| BSc. Hons. (Ag.), BFSc., BSc. Hons. (Forestry) <br> B.Tech. (Ag. Engg.), B.Tech. (D.Sc. \& Tech.) | 4 | 1 semester* |
| BVSc. \& AH | $5(8$ Sem.) | 6 months |
| B.Tech. | $5(10 \mathrm{Sem})$. | 6 months* |
| B.Arch. |  |  |

*Included in Course Duration
4. RESERVATION OF SEATS FOR VARIOUS COURSES
4.1 Types of Reservation in Government / Aided / KAU Colleges: Out of the total seats available for the various courses, seats will be reserved for different categories as given under Clauses 4.1.1 to 4.1.5.
4.1.1 Reservation for All India Quota for MBBS/BDS Courses: These are the seats set apart for MBBS/ BDS courses in Government Medical/Dental colleges in the state for candidates allotted through the All India Pre-Medical/ Pre-Dental Entrance Examination conducted by the CBSE.
4.1.2 Reservation for Nominees : These are the seats set apart for the nominees of the Government of India, Union Territories or other States for the various courses. Such candidates need not write the Entrance Examination.
4.1.3 Reservation for Persons with Disabilities : Leaving the seats set apart under Clauses 4.1.1 and 4.1.2 above, three percent of the seats available for the state for allotment from the state entrance rank lists, for all the courses in all the Government and Aided colleges are reserved for the candidates with disabilities. [For details, refer Clause 5.3]
4.1.4 Special Reservation : These are the seats reserved for certain specific categories, for different courses. [For details, refer clause 5.2]
4.1.5 Mandatory Reservation : Leaving the seats set apart for All India Quota, Government of India Nominees, Special reservation, Persons with Disabilities and Management, the remaining Government seats for each course in Govt./ Aided/ KAU Colleges will be distributed as per the mandatory reservation principle as contemplated in G.O. (P) 208/66/Edn. Dated 2.5.1966, G. O. (Ms) No. 95/ 08/ SCSTDD Dated 06.10.2008 and as modified from time to time.

The percentage break-up of seats as per mandatory reservation is as follows:

| (A) |  | State Merit (SM) |  | $-64 \%$ |
| :--- | :--- | :--- | :--- | :--- |
| (B) |  | Socially and Educationally Backward Classes (SEBC) |  | $-26 \%$ |
|  | a. | Ezhava (EZ) | $-9 \%$ |  |
|  | b. | Muslim (MU) | $-8 \%$ |  |
|  | C. | Other Backward Hindu (BH) | $-5 \%$ |  |
|  | d. | Latin Catholic Other than Anglo Indian (LC) | $-2 \%$ |  |
|  | e. | Other Backward Christian (BX) | $-1 \%$ |  |
|  | f. | Kudumbi (KU) | $-1 \%$ |  |
| (C) |  | Scheduled Castes \& Scheduled Tribes | $-8 \%$ | $-10 \%$ |
|  | a. | Scheduled Castes (SC) | $-2 \%$ |  |

4.1.6 The total number of seats available for the different courses will be published prior to the commencement of CAP-2009.
4.1.7 Admission to all the Government seats except the seats reserved for All India Quota for MBBS/ BDS and Nominees will be made on the basis of the rank in the Entrance Examination/ inter-se merit as may be applicable.
4.1.8 The number of seats earmarked for various categories for the different courses in Government and Aided Colleges will be finalised before CAP-2009.
4.1.9 Reservation of seats for Engineering Courses [B.Tech.]: The number of seats reserved for Government of India Nominees, Reciprocal quota and Special reservation categories is given in Annexure II (2).
4.1.10 Reservation of seats for B.Arch. : The number of seats reserved for Government of India Nominees and Special reservation categories is given in Annexure II (2).
4.1.11 Reservation of seats for MBBS \& BDS.
4.1.11(a) Reservation of seats under All India Quota : The seats reserved under All India Quota for MBBS and BDS Courses in Govt. Medical/Dental Colleges will be allotted by the Director General of Health Services, New Delhi, on the basis of the rank obtained in the All India Pre-Medical/Pre-Dental Entrance Examination conducted by the CBSE, New Delhi as per the directions contained in the Supreme Court J udgement dated 21.07.1986. Details of seats are given in Annexure III (2).
4.1.11(b) Reservation of seats for Nominees :
(i) Nominees of the Government of India : The Government of India, subject to the eligibility conditions in clause 6 , will make Nominations to these seats. The distribution of seats under this category and other details in respect of Engineering and Medical courses are available in Annexures II (2) and III (2) respectively.
(ii) Nominees from the Government of Puducherry : The Government of Puducherry, subject to the eligibility conditions in clause 6, will make nominations to these seats and these seats will be distributed among the Medical Colleges in the State. The details of seats available are given in Annexure III (2).
(iii) Nominees from Union Territory of Andaman \& Nicobar Islands: These seats are reserved for the candidates of Kerala origin settled in the Union Territory of Andaman and Nicobar Islands. Nominations to these seats will be made by the Administration of that Union Territory and the candidates must possess the requisite qualifications as provided under clause 6. The distribution of seats is given in Annexure III (2), V (2) and VII (2).
(iv) Nominees from Lakshadeep : Seats are reserved for the candidates of Kerala origin settled in Lakshadeep. The candidates should be sponsored by the Administration of that Union Territory and must possess the requisite qualifications as per Clause 6. The distribution of seats is given in Annexure III (2), V (2) and VII (2).
(v) Nominee from Jammu \& Kashmir : One seat for MBBS will be reserved in a Govt. Medical College (by rotation every year) for a nominee from Jammu \& Kashmir. Candidates to this seat should be sponsored by the Government of Jammu and Kashmir through the Higher Education Secretary of the State. This year, the seat will be reserved in T D Medical College, Alappuzha. [See Annexure III(2)].

Admission to the seats under 4.1.11(b)(i) to 4.1.11(b)(v) above should be completed by the admitting authority by 17.9.2009. The Director of Medical Education will inform the CEE, the un-availed seats in these categories on 18.9.2009 itself. Such seats will be reverted to the mandatory quota.
4.1.12 Reservation of seats for BHMS course : The number of seats reserved under nominees and special reservation categories are given in Annexure IV (2).
4.1.13 Reservation of seats for BAMS : The number of seats reserved under nominees and special reservation categories are given in Annexure V (2).
4.1.14 Reservation of seats for courses under the Kerala Agricultural University (KAU) : [BSc.Hons.(Ag.), BVSc \& AH, BFSc., BSc. Hons. (Forestry), B.Tech. (Ag. Engg.) and B.Tech. (DSc. \& Tech.)]
(a) The number of seats reserved for the various special reservation categories over and above the intake capacity is given in Annexure VII (2).
(b) The seats available for Agricultural and Veterinary courses in Annexure VII (2) will be filled only by the concerned category of candidates. If students are not available in the respective category, the seats will be filled from the General quota. (Also refer to Clause 5.2.18)
(c) One seat is reserved for Anglo Indian/Jewish Community, on rotation basis for one of the courses in the order of BSc. Hon. (Ag.), BVSc \& AH, BFSC., and BSC. Hon. (Forestry), B. Tech. (Ag. Engg.) and B. Tech. (DSc. and Tech.). This year the seat is reserved for Anglo Indian community for BVSc \& AH Course. If no candidate is eligible in Anglo Indian community, the seat will be allotted to Jew category. Similarly, one seat is reserved for son/daughter of freedom fighters for one of the above courses in the order given above. This year this seat is reserved for BVSc \& AH course.
(d) The seat reserved for Latin Catholic Other than Anglo Indian and Other Backward Christian communities for B.Tech. (DSc \& Tech.) will be reserved on rotation basis. This year the seat is reserved for Latin Catholic other than Anglo Indian community.
4.2 Types of reservation in Self financing Colleges: The reservation of seats in Self-financing Colleges run by institutions under Govt. control and other Private Self-financing colleges will be notified separately.

## 5. CLAIMS FOR RESERVATION AND CERTIFICATES TO BE PRODUCED

Note: (i) Claims for Special/Mandatory reservations must be made by a candidate at the time of submission of application for the Entrance Examination with supporting documents as required. The claim has to be specified in the application form and OMR data sheet in the appropriate places. Claims made after the submission of application will not be entertained even if supporting evidences are produced. The claims for Special and Mandatory reservation once made in the application form and OMR data sheet cannot be altered by the candidate under any circumstance.
(ii) Only candidates belonging to 'Keralite' category (as defined in Clause 6), are eligible for claiming seats under Mandatory quota in Government/Aided Colleges, and Special reservation quota unless otherwise specified in the prospectus. Details of reservation of seats, if any, in Self-financing colleges will be notified separately.
5.1 Reservation for Nominees: The categories of candidates who are entitled to the Central Government reserved seats for admission to MBBS/ BDS courses, and the authorities to whom applications are to be sent, are given in Annexure III (3). Categories of candidates who are entitled for reservation under nominees for BHMS \& BAMS courses are available in Annexure IV (2) \& V (2) respectively.

### 5.2 Claim for Special Reservation:

(i) Selection under special reservation categories for admission to MBBS and BDS courses

In the case of special reservation seats earmarked for MBBS \& BDS courses, which are filled on the basis of the rank in the Entrance Examination, only those candidates who have scored 50\% marks in the Medical Entrance Examination for Paper I \& II together with applicable relaxation for SC/ ST/ SEBC categories (as per directives of MCl ) and secured rank within seven fold of the total number of MBBS \& BDS seats in Professional Colleges/ Institutions available for allotment through 'Single Window System' (SWS) will be considered for admission.

For example, if the number of seats available for MBBS is 800 and for BDS is 200, only candidates with Medical rank up to 7000 will be considered for Special Reservation for MBBS and BDS Courses.
The total number of seats to be reckoned for this purpose will be the seats available as on the date of declaration of the results of the Medical Entrance Examination in May 2009. The Seven-fold rank stipulation will not be applicable to special reservation seats coming under clause 5.2.11(i) below. (But the minimum mark stipulation of MCl is applicable to these seats also.)

In the case of candidates whose admissions are governed by inter-se merit list, only those candidates who secure rank in the Entrance Examination as stipulated in pre-para will be considered while preparing the inter-se merit list for admission to MBBS/ BDS courses.

Candidates who have scored $50 \%$ marks in the Medical Entrance Examination (Paper I \& II together) and secured rank within seven fold of the total number of MBBS \& BDS seats in Professional Colleges / Institutions available for allotment through 'Single Window System' will be considered for admission to MBBS/ BDS Courses under Special reservation.
(ii) All the candidates seeking admission under the 'Special Reservation Categories' will have to appear for the Entrance Examination and find place in the rank list. In case the admissions are based on inter-se merit list, only those candidates who have been ranked in the Entrance Examination will be considered for preparing the inter-se merit list.
(iii) Candidates should mention the item of reservation claimed in the relevant columns in the application form and OMR data sheet and should be otherwise eligible as per Clause 6.
(iv) Candidates should attach along with their application form, attested copies of the relevant certificates as mentioned for each item below, in support of the claim.
(v) Selection to the seats mentioned from 5.2 .1 to 5.2 .17 below will be made on the basis of the rank in the Entrance Examinations. Selection to the seats mentioned from 5.2 .18 to 5. 2.20 below will be made on the basis of the inter-se merit of the candidates in the merit list prepared for the purpose. For special reservations mentioned from 5.2.18 to 5.2.20 below, only those candidates who secure a rank in the Entrance Examination will be considered for inclusion in the inter-se merit list.
(vi) In cases where candidates are to be allotted to the 'Special Reservation' seats of Engineering, Architecture, Medical/ Agricultural courses on the basis of inter-se merit list, the authorities concerned will forward to the Commissioner for Entrance Examinations, the preliminary merit list of candidates prepared on the basis of the proficiency of the candidate in the respective fields. Such preliminary proficiency list should reach the Office of the Commissioner for Entrance Examinations on or before $30^{\text {th }}$ April 2009. Lists received after this date will not be entertained under any circumstance and such seats will be merged to the Mandatory reservation quota.
(vii) Seats under Special Reservation in Self-financing colleges, if available, will be notified separately. Such seats, if any, will not be shifted to Government/ Aided colleges under any circumstance. The details of Special Reservation seats earmarked in Govt./ Aided Colleges are given in Annexure II (2), III (2), IV (2), V (2) and VII (2).
Note: Allotments under Sports Quota will be as per provisions in Clause 5.2.19.
5.2.1 Ex-servicemen Quota (XS) : Applicants to this category should invariably produce along with the application form a certificate in Annexure XIII (a) obtained not earlier than 6 months from the date of application from the military authorities or State/Zilla Sainik Welfare Officer to the effect that he/ she is the son/ daughter of ex-serviceman or an ex-service man himself / herself. The certificate should clearly show that the benefit of reservation has not been granted earlier to any member in the family. In the absence of the certificate, the claim will not be considered.
5.2.2 Dependant of Defence Personnel Killed/Missing/Disabled in action (DK) : This benefit will be available to one person only from the family concerned in respect of each defence person killed in action/missing in action/disabled either during war hostilities or in peace time. They should invariably produce a certificate in Annexure XIII (a) along with the application form, obtained not earlier than six months from the Military Authorities/ Zilla Sainik Welfare Officer to the effect that he/ she is the son/daughter/ widow of the defence person who was killed in action or missing in action or disabled. In the case of disabled personnel, the certificate should specify that the concerned person was/ is in receipt of
disability pension. The certificate should clearly show that the benefit of reservation has not been granted earlier to any member in the family. In the absence of the certificate, the claim will not be considered.
If no suitable candidate under this category is available for the concession, as per the existing order/ rules, the seats reserved for them will be given to the son/ daughter/ widow of the defence personnel who died in harness (HR), if they are otherwise eligible as per clause 6. They should produce certificate in Annexure XIII (a) from Military Authority/ Zilla Sainik Welfare Officer to the effect that the defence personnel had died while in service. The certificate should clearly show that the benefit of reservation has not been granted earlier to any member in the family. In the absence of the certificate, the claim will not be considered.
If there are still no suitable candidates under this category, the seats reserved for the children/ widow of defence personnel killed in action/missing in action/disabled will be given to children of Serving Defence personnel or in their absence to ex-servicemen / children of ex-servicemen.

Only one candidate from a family will be eligible for Special Reservation quota under Clause 5.2.1 \& 5.2.2.
5.2.3 Serving Defence Personnel (SD): Seats are reserved for sons/ daughters of serving defence personnel from Kerala for admission to Engineering and Medical/Agricultural Courses. Candidates seeking reservation under this category should produce a certificate in Annexure XIII (b) along with the application form obtained from the Officer Commanding to the effect that the candidate is the son/daughter of serving defence personnel, with details of the station where he/ she works at present. Certificate obtained for other purposes will not be considered.
5.2.4 CRPF (RP) : Seats are reserved for sons/ daughters of personnel serving in Para Military Forces, including CRPF, BSF, CISF, ITBSF, etc. Candidates seeking admission under this category should produce a certificate in Annexure XIII (b) along with the application form obtained from the Officer Commanding under whom they are serving/ were serving to that effect. The certificate should have been obtained not earlier than six months from the last date for the receipt of the application in the office of the Commissioner for Entrance Examinations. The purpose of issue should be shown clearly and the certificate issued for other purposes are not acceptable in any case. If seats are remaining unfilled, the same will be filled up by the wards of CPMFS provided it is specifically shown in the attached certificate that the organization in which they are working/ worked is a paramilitary force under Govt. of India.
5.2.5 Anglo-Indian (AI) quota (For MBBS/ BDS courses) : One seat each will be reserved for AngloIndian community for admission to MBBS, BDS [GO (Ms) No. 543/08/H\&FWD dated 22.10.2008]. In case, candidates from the community become unavailable, the seats will merge with the mandatory reservation quota. The selection will be on the basis of the rank obtained in the Entrance Examination. The candidate claiming reservation under the Anglo Indian community quota should obtain, in the body of application form, a certificate from the Village Officer/Tahsildar to the effect that he/ she belongs to Anglo Indian community. Such candidates need not produce the income certificate for claiming reservation under this quota.
5.2.6 Degree holders in MBBS, BHMS/ Diploma holders in Homoeopathy (OA) (For BAMS course) : One seat in BAMS course will be reserved for the candidates having MBBS Degree/ DHMS/ BHMS Degree recognised by any one of the Universities in Kerala subject to the eligibility conditions under clause 6. Admission to the course is based on the rank obtained in the Entrance Examination. The candidates should produce attested copies of MBBS degree/ BHMS degree/ DHMS certificate, as the case may be, to prove eligibility. Copies of Internship certificate and registration certificate should also be produced in support of the claim along with the application form.
5.2.7 Degree / Diploma holders in Ayurveda (DA) (For MBBS course) : Four seats are reserved for Degree/ Diploma holders in Ayurveda for MBBS course. Admission will be given to both degree/ diploma holders without discrimination, on the basis of the rank obtained in the Entrance Examination. Candidates should produce copies of (a) degree/ diploma certificate, (b) internship certificate, and (c) registration certificate, in support of the claim along with the application form.
5.2.8 Degree/Diploma holders in Homoeopathy (DH) (For MBBS course) : Four seats for the MBBS course are reserved for holders of degree/diploma in Homoeopathy recognised by the Government under the schedule to the T.C. Medical Practitioners' Act, 1953 subject to the eligibility condition in clause 6 . Admission will be given to both the degree and diploma holders without discrimination, on the basis of the rank obtained in the Entrance Examination. Candidates should produce copies of (a) degree/diploma certificate, (b) internship certificate, and (c) registration certificate in support of the claim, along with the application form.
5.2.9 BDS Degree holders for MBBS (DM): One seat for the MBBS course is reserved for BDS Degree holders, subject to the eligibility condition in clause 6 . Admission will be given on the basis of the rank obtained in the Entrance Examination. Candidates should produce copies of (a) degree certificate, (b) internship certificate, and (c) registration certificate in support of the claim, along with the application form.
5.2.10 Degree Holders in MBBS/BAMS/BVSc. \& AH/BSC.(Agriculture)/BFSC./BSc.(Forestry) (OH) (For BHMS Course) : One seat for BHMS Course will be reserved for the candidates having MBBS/ BAMS/ BVSc. \& AH/ BSc. Hon. (Agriculture)/ BFSc./ BSc. Hon. (Forestry)Degree recognised by any of the Universities in Kerala. Candidates should attach with the application form copy of the Degree certificate and if the degree has been taken form outside the state, an eligibility/ equivalency certificate of the degree from any of the Universities in Kerala, should also be attached with the application.
5.2.11(i) Nurse-Allopathy (NQ): One seat under this quota for MBBS course is reserved for Nurses (Allopathy) in regular service under the Government of Kerala. Candidates should attach a Service Certificate in Annexure XIV from the Head of Office, stating that the candidate is a Regular Employee in the State Government Service. The candidate should also attach a Registration Certificate issued by the Kerala Nurses \& Midwives Council. The candidates who have undergone their Nursing Course outside the State should obtain the Registration Certificate issued by the Nursing Council of respective State. The certificates should be attached along with the application form.
(ii) Nurse-Homoeopathy (NH): In the case of BHMS course one seat is reserved for Nurses (Homoeo) and such candidate should have passed the Higher Secondary or equivalent examination in addition to the Government recognised course in Nursing (Homoeo). Candidate should attach a service certificate in Annexure XIV obtained from the Head of the Office in Kerala stating that he/ she is a regular employee in Government service working as Nurse (Homoeo).
(iii) Nurse-Ayurveda (NY) : In the case of BAMS course one seat is reserved for Nurses (Ayurveda) and such candidate should have passed the Higher Secondary or equivalent examination. Candidate should attach a service certificate in Annexure XIV obtained from the Head of the Office in Kerala, stating that he/ she is a regular employee in Government service working as Nurse (Ayurveda).
5.2.12 Children of Agriculturists for BSc. Hons. (Ag.) and BVSc. \& AH Courses (CA) : An agriculturist should be a person whose major income is derived from the agricultural sources including agricultural labour. The parent or guardian of the student shall not be an assessee of Income Tax. The non-agricultural income of the parents or guardian should not be more than Rs.12000/- per annum. Necessary certificate from the Village Officer should be produced along with the application. Candidates should furnish certificates obtained from the Income Tax Officer to the effect that the applicant's parents/ guardian is not paying any income tax. The applicant should also produce a certificate from the Tahsildar to the effect that the applicant's parents/guardian is an agriculturist in the state. The Agricultural income and non-agricultural income of the parent/guardian of the applicant should specifically be mentioned in the income certificate issued by the competent authority of the

Revenue Department in the form prescribed by the Kerala Agricultural University [vide Annexure XVI].
5.2.13 Farm Labourers for BSc. Hons. (Ag.) and BVSc. \& AH Courses (FL) : Candidates seeking reservation under the quota for Agricultural University farm labourers and their children should furnish a certificate along with the application form obtained from the concerned Officer in charge of the farm of the Kerala Agricultural University to that effect. Note: The term 'farm labourers' will mean labourers (permanent) of the Kerala Agricultural University only.
5.2.14 Children of Fishermen for BFSc. Course (CF) : Candidates seeking admission under the quota for children of fishermen should furnish a certificate along with the application form obtained from the Village Officer stating that the applicant is the son/daughter/dependant of a fisherman. In addition to the dependency certificate, the candidates for this quota should produce the following certificate also :
(i) The children/dependants of fishermen are those whose parent's/ guardian's profession is fishing and their main source of income is from fishing and their annual family income is up to Rs.2.5 lakhs per annum. The income certificate obtained in the format prescribed in Annexure XVI should also be produced along with the application form.
(ii) Dependants are the son/daughter/brother/ sister of fishermen.
5.2.15 Children of Freedom Fighters for BSc. Hons. (Forestry) Course (FF) : Candidates seeking reservation under the quota for son/daughter of the freedom fighters should obtain a certificate from the Village Officer concerned to prove the relationship of the candidate to the freedom fighter in addition to the attested copies of the pension payment order along with the application form.
5.2.16 Ceylon/Burma Repatriates for BSc. Hon. (Ag.) and BVSc. \& AH Courses (CB) : Candidates seeking reservation under repatriates from Burma and Ceylon should furnish documentary evidence in support of the claim. In addition to this, a certificate issued by the Tahsildar or higher revenue authorities, showing clearly, the present domicile status of the repatriate which has been obtained not earlier than six months from the last date for the receipt of the applications in the Commissionerate should also be furnished along with the application.
5.2.17 Scouts and Guides for Engineering Courses (SG): Two seats are reserved for Rashtrapthi Scouts and Guides for Engineering courses. Candidates seeking reservation under this quota should attach copy of the Rashtrapathi Guide Certificate signed by the President of India. In the absence of this Certificate, specimen Certificate signed by the Director of Public Instructions (DPI), Kerala and the State Secretary, Kerala State Bharat Scouts and Guides, will be considered.
5.2.18 Village Level Workers (VL)/Agri. Demonstrators (AD)/ Live Stock Inspectors (LS)/ Farm Asst. (Agri.) (FA)/Farm Asst. (Vety.) (FV)/ Dairy Farm Instructors (DF) (For Agrl. courses only) : Candidates, who claim the seats reserved for Village Level Workers/Agri. Demonstrators/Live Stock Inspectors/Farm Assistants, should submit their applications to the Commissioner for Entrance Examinations, through their Heads of Offices with recommendation. A copy of the above application with attested copies of all certificates will also have to be sent to the Registrar, Kerala Agricultural University, Vellanikkara, Thrissur.
To claim (i) seats for BSc. Hons. (Ag.) course reserved for Village Level Workers, Agricultural Demonstrators, Farm Assistants (Agri.), Diploma Holders in Agricultural Science, (ii) seats for BVSC. \& AH reserved for Live Stock Assistants, Farm Assistant (Vety.) (iii) seats reserved for B.Tech. (Ag. Engg.) for DARE Holders and (iv) seats reserved for Dairy Farm Instructors of Dairy Development Department for B.Tech. (DSc. \& Tech.), the candidates must take the concerned Entrance Examination.
They have to send a photocopy of the application to the Registrar, Kerala Agricultural University, Main Campus, Vellanikkara, Thrissur-680656 also. A selection committee constituted by the University will assign marks to the candidates out of 500 , considering the academic merit (Higher Secondary $=200$ ) higher qualification (BSC. $=100$, MSC. $=100$ ) and length of service (100). The list of candidates under the respective categories along with the marks allotted to them as above will be prepared and sent to the Commissioner for Entrance Examinations to reach him on or before $30^{\text {th }}$ April 2009.
The marks out of 500 , awarded to the candidates for academic merit will be added to the marks obtained by the respective candidates in the Entrance Examination (provided they are
ranked in the Entrance Examination), computed out of 500 so that the candidates would be eligible for a maximum of 1000 marks. The merit list for each category would be prepared on the basis of inter-se merit of the candidate computed as above.
Note :(i) One seat each is reserved for Livestock Inspector and Farm Assistant (Vety.) for BVSc. \& AH Course. If candidates are not available in any one of these categories during a year, the same will also be allotted to the other category.
(ii) A total number of 20 seats are reserved for Village Level Workers (2 seats), Farm Assistants (Agri.) (2 seats), Diploma Holders in Agriculture ( 6 seats), Agricultural Demonstrators (10 seats) for BSc. Hons. (Ag.) course.
If candidates are not available in any one of the categories listed under (ii), the seats that remain unfilled will be allotted to eligible candidates from other categories listed, based on their inter-se rank.
(iii) Two seats will be reserved for Dairy Farm Instructors of Dairy Development Department for B.Tech. (Dairy Science \& Technology)
(iv) If candidates as per note (i), (ii) and (iii) are not available, the seats will be filled up from the General Quota.
5.2.19 Sports Quota (SP) : Candidates who claim reservation under Sports Quota shall fulfill their eligibility based on the norms of Kerala State Sports Council appended in Annexure XVIII (ii) prior to submission of application, for the seats as prescribed in the Prospectus.
The candidate should forward the original application form to the Commissioner for Entrance Examinations, and a photocopy of the application to the Secretary, Kerala State
Sports Council, Thiruvananthapuram-695001. The Sports Council will allot marks to the candidates according to their proficiency in sports. The maximum mark for proficiency is 500. [Guidelines of the Sports Council for award of Marks for proficiency in Sports is given under Annexure XVIII (ii) of this Prospectus].
The Sports Council Authorities will collect the Roll Numbers of the candidates from them and furnish them in the mark list. The mark list of candidates under 'Individual Events' and 'Team Events' should be prepared separately and forwarded to the Commissioner for Entrance Examinations to reach him on or before $30^{\text {th }}$ April 2009. In the case of candidates seeking admission to Engineering or/ and Medical/ Agriculture courses, the marks out of 500, awarded to the candidates for proficiency in sports will be added to the marks obtained by the respective candidates in the concerned Entrance Examination (provided they are ranked in the Entrance Examination), computed out of 500 . So, the candidates would be eligible for a maximum of 1000 marks. The merit list for each category would be prepared on the basis of inter-se merit of the candidate computed as above. A category wise list of candidates included in 'Individual' and 'Team' events will be prepared based on the inter-se merit and published separately.
At the time of preparation of the rank list under sports quota, if there is any tie in the total marks, it will be resolved by the same principle of resolution of tie for the preparation of Engineering/ Medical rank list, as the case may be, of the Entrance Examination.
The seats under sports quota will be filled up according to the rank from the inter-se Merit List prepared for Sports. $50 \%$ of the total seats are set apart for the individual events and $50 \%$ for team events. If there is any vacancy in the $50 \%$ seats reserved for individual events/team events, the seats shall be filled up by candidates from the other category. A common principle will be followed for allotment of seats in Engineering, Medical/ Agriculture \& allied courses.
5.2.20 NCC Quota (CC) : The candidates seeking admission under the NCC quota should forward the original application form to the Commissioner for Entrance Examinations, and a photocopy of the application to the Deputy Director General, NCC (Kerala), PB No.2212, Thiruvananthapuram-695010 through the respective NCC Unit Officers where the candidates have been enrolled as cadets, before the last date for submission of application.
The state level committee, on the basis of the norms approved by the Government, will award candidates, marks according to their proficiency in NCC. The maximum marks for proficiency will be 500 . The NCC authorities will collect the Roll Number of the candidates in the Entrance Examinations from the respective candidates and furnish the Roll Numbers in the mark list. The Deputy Director General, NCC, will forward the list of candidates with
their marks to the Commissioner for Entrance Examinations to reach him on or before $30^{\text {th }}$ April 2009.
In the case of candidates seeking admission to Engineering or/and Medical/Agriculture courses, the marks out of 500, awarded to the candidates for proficiency in NCC will be added to the marks obtained by the respective candidates in the concerned Entrance Examination (provided they are ranked in the Entrance Examination), computed out of 500. In the case of Architecture course, the marks out of 500, awarded to the candidates for proficiency in NCC will be added to the marks considered for preparing the rank list computed out of 500 . So the candidates would be eligible for a maximum of 1000 marks. The merit list would be prepared on the basis of inter-se merit of the candidate computed as above.
At the time of preparation of the inter-se merit list under NCC Quota, if there is any tie in the total marks, it will be resolved by the same principle of resolution of tie for the preparation of Engineering Rank List, Medical Rank list or the Rank list, as the case may be, of the Entrance Examination.

### 5.3 Reservation for Persons with Disabilities (PD) :

Three percent of the seats available to the state for allotment from the state rank lists are reserved for candidates with disabilities for all courses in Govt./ Aided Colleges as stipulated in Section 39, Chapter VI of the Persons with Disabilities Act 1995. As per Clause 2 (t), Chapter I of the Act, 'Person with disability' means a person suffering from not less than $40 \%$ of any disability as certified by a medical authority. Generally, candidates who have a minimum of $40 \%$ disability alone will be eligible to apply for this quota. Candidates seeking admission to Medical courses (except BHMS), will have to satisfy the eligibility criteria prescribed by the Medical Council of India for 'Persons with Disabilities'. Accordingly, (i) the 'Visually handicapped', 'Hearing disabled' and 'Locomotory disabled' involving upper limb are not eligible for admission to the Medical courses. (ii) Candidates with 'Locomotory disability' of lower limb between $50 \%$ and $70 \%$ would be allowed the benefit of reservation under the Disability Act for admission to the Medical courses. Blind (including colour blind), deaf and/ or dumb candidates shall not be eligible for admission to the BHMS course as per Central Council of Homoeopathy Guidelines.
For claiming reservation under this category for MBBS/ BDS/ BAMS/ BSMS/ BHMS/ BVSc. \& AH courses, an attested copy of the certificate of disability from the District Medical Board certifying the degree of percentage of disability issued not earlier than 3 months prior to the submission of application has to be attached with the application form. This certificate will be considered for granting this benefit for other Medical courses, Engineering and Architecture also.
However, candidates under this category, desirous of being considered for Agriculture courses [ BSc. Hons. (Agri.), BFSc. (Fisheries) ], Engineering and Architecture, need attach only an attested copy of the certificate of disability from the District Medical Board certifying the degree of percentage of disability issued not earlier than 12 months prior to the submission of application along with the application form.
No document / certificate other than those mentioned above will be considered for determining disability. Based on the certificate produced along with the application form, candidates will be provisionally included under the 'Persons with Disability' category.

The CEE will publish the merit list of such candidates, who have been included in the category. However, the inclusion in this rank list is strictly provisional.
A State Level Committee to be constituted by the Government under the Chairmanship of the Commissioner for Entrance Examinations consisting of medical experts in General Medicine, ENT, Neurology, Orthopaedic Surgery, Ophthalmology and Community \&

Rehabilitation Medicine will examine and assess the disability of the candidates who are provisionally included under this category. Necessary orders constituting the Committee will be issued by the Government in due course and the same will be notified. The State level Committee will have powers to review the certificates issued by the District Medical Boards.
There will be special invitees representing Medical/ Agricultural/ Engineering specialities to this Committee in addition to Medical Experts who will subsequently determine the suitability of a candidate, having minimum $40 \%$ of any disability, for a particular course.
Only those candidates who are having a minimum $40 \%$ of any disability and are found to be physically suitable by the Committee for the courses opted by the candidates will be chosen for a course as only the physically fit can undergo the rigors of a professional course. The recommendations of this State Level committee will be binding on the candidates. The selection of candidates under this category will be based on the merit in the Entrance Examination and physical suitability, and not on the basis of the degree of disability.
Note: However, only those candidates who have scored $* 50 \%$ marks in the Medical Entrance Examination (Paper I \& II together) will be considered for admission to MBBS/ BDS Courses. (*As per directives of the MCI)

### 5.4 Claims for Mandatory Reservation :

5.4.1 State Merit : The seats under the State Merit (SM) will be filled purely on merit (State-wide) basis irrespective of the category/ community to which the candidates belong.
5.4.2 Claim for communal reservation under the Socially and Educationally Backward Classes (SEBC) :
Note: Reservation to the Socially and Educationally Backward Classes will be in accordance with the provisions contained in G.O.(P)208/66/Edn. dated 02.05.1966, G.O.(Ms) No. 95/ 08/ SCSTDD dated 06.10.2008 and as amended from time to time.
(a) Candidates belonging to Socially and Educationally Backward Classes as per G.O. (P) 208/66/Edn. dated 2.5.1966, whose annual family income (i.e., annual income for the financial year 2007-08 as per GO (Ms) No. 304/06/ RD dated 28.10.2006 of all members in the family from all sources taken together) is upto Rs. 2.5 lakhs (Rupees Two lakhs and fifty thousand only) are eligible for reservation under this category. The names of castes and communities under SEBC are given in Annexure XI. Only the claims of the candidates of those communities that are included in the list as incorporated in the respective Annexure of the Prospectus 2009 will be considered. Claims by candidates belonging to other communities, which are not included in the Annexure, will be rejected even if certificates from the concerned Revenue Officers have been obtained and furnished along with the application form.
(b) Candidates belonging to Ezhava, Muslim, Other Backward Hindus, Latin Catholic other than Anglo Indian, Other Backward Christian and Kudumbi communities, claiming reservation under SEBC Quota should invariably produce both community and income certificates obtained from the Village Officer concerned. The above certificates should be obtained in the body of the application form itself. Those whose annual family income is above Rs.2.5 lakhs are neither eligible for reservation nor any relaxation in the academic eligibility, both in the qualifying examination and the Entrance Examination. (See Annexure XVIII(i) for details).
Note: Income from salary: In the case of candidates whose parents are employed, the Basic Pay and Dearness Allowance of the employee(s) are to be taken into account for the purpose of calculating total annual family income. Inclusion of Interim relief in the annual income will be as per the orders of Revenue Department. HRA, Special pay, Deputation pay, TA, PTA, honorarium etc. need not be counted for calculating the annual family income.
(c) The admissibility of the claim for reservation of the candidates under SEBC on the basis of the community and income certificates issued by the Village Officers will be subject to reverification of the income-certificates by the Tahsildar concerned vide GO (Rt) No. 621/93/ H \& FWD dated 12.03.1993.
(d) The annual family income furnished by candidates claiming SEBC reservation will be published in the website "www.cee-kerala.org" fecilitating the public to raise complaints / objections against false claims. The District Level Committee and the State Level Committee constituted with the provisions of G.O.(Rt) 1227/ 08/RD dated 01.04 .2008 will conduct detailed enquiry on the complaints and recommend to the CEE for appropriate action, respectively. The CEE, the Chairman and Convenor of the State Level Committee, shall implement the recommendations as per clause 5.4.2.(e) of the Prospectus.
(e) The candidature/allotment/admission of the candidates who furnish false Income/ community certificates is liable to be cancelled. Such candidates are also liable to be debarred from appearing for the Entrance Examination for a period extending upto two years.
Applicants claiming reservation under 'Latin Catholic other than Anglo Indian' quota should produce a community certificate from the concerned Village Officer in the body of the application itself specifying that they belong to Latin Catholic Other than Anglo Indian Community. The certificate obtained from the Revenue Officer in support of the community claim cannot be subjected to any change at any subsequent stage.

Candidates should take maximum care to see that the issuing authority has made the entries in the relevant column of the community certificate correctly as "Latin Catholic other than Anglo Indian" along with the signature and office seal of the issuing authority.
(g) Reservation under SEBC for children of inter-caste married couples: Children of Intercaste married couple with either the father or mother belonging to a community included in SEBC list, or with father and mother belonging to different communities, both of which are included in the SEBC list, are eligible for reservation under SEBC. Such candidates should furnish an 'Inter-caste Marriage Certificate' from the Village Officer in the proforma given in Annexure XV. They need not produce income certificate for claiming communal reservation. Candidates with father and mother belonging to different communities, both of which are included in the SEBC list, can avail communal reservation under any one of the communities of their parents, to be mentioned by the candidate in the relevant column of the application. (For example a candidate born out of inter-caste marriage between an Ezhava and a Muslim can claim the reservation benefit applicable either to Ezhava or Muslim only and not against both). The claim made in the Application form will be final and cannot be changed subsequently.
(h) Candidates who are children of Inter-Caste married couple of whom one is SC/ ST, will be eligible for educational and monetary benefits admissible to SC/ ST as per Section 2 (ii) of GO (MS) No. 25/ 2005/ SCSTDD dated 20.6.2005, if eligible for reservation under SEBC, will be granted the same, based on the community shown in the inter-caste marriage certificate issued by Revenue officials and to be attached by them with the application.
5.4.3 Claim for reservation under Scheduled Castes/ Scheduled Tribes Quota :
(a) Candidates claiming reservation under Scheduled Castes/ Scheduled Tribes quota should obtain the caste/ community certificate from the Tahsildar concerned, in the proforma given in the application form specifically meant for them. SC/ ST caste status of children, whose parents contracted Inter-caste marriage, will be subject to the orders/ clarification issued in GO (Ms) No. 25/ 2005/ SCSTDD dated 20.06.2005, judgement dated 10.08.2005 of the Full Bench of the Hon'ble High Court of Kerala in WP 2483/ 2005 and connected cases and GO (Ms) No.109/ 2008/ SCSTDD dated 20.11. 2008.
As per G.O.(MS)No.109/2008/ SCSTDD, dated 20.11.2008, the children born of inter-caste married couple of which one of the parents is SC/ ST can claim the status of SC/ ST on proof of the conditions of acceptance, customary traits and tenets under which such children are brought up.
The competent authority issuing SC/ ST community certificate to children born of inter-caste married couple, of which one of the parents is SC/ST, should ensure that the claimant is subjected to same social disabilities and also following the same customs and traditions and the community has accepted that person to its fold as such. The authority to issue caste certificate should also ensure that :
(i) Each case shall be examined individually in the light of the existing facts and circumstances.
(ii) The claimant has suffered disabilities - socially, economically and educationally.
(iii) The society has accepted the claimant to their original fold as one among them and is living in the same social tenet.

Christian converts who have subsequently embraced Hinduism should produce caste/ community certificate in the proforma given in the application form. The following certificate should also be got recorded by the Revenue Official, below the certificate, "The certificate is issued after observing the guidelines issued in the Government Circular No. 18421/ E2/ SCSTDD dated 15.12.1987".

> The names of castes and communities are given in Annexure VIII \& IX. Community certificate from Tahsildar is to be obtained in the body of the application form itself.
(b) The applications for the reserved seats of Scheduled Castes/ Scheduled Tribes candidates which do not contain SC/ ST certificate (community certificate) from the Tahsildar in the prescribed form provided on the body of the application will not be considered on any account for claiming community reservation against the seat reserved for SC/ ST candidates [vide G.O. (Ms) 31/90/ SCSTDD dated 25.05.1990]. The community certificate should clearly specify that the candidate himself/herself (not the father or mother) belongs to the Scheduled Castes/ Scheduled Tribes. The Community Certificates obtained as per G.O. (Ms) No.136/07/RD, dated 27.04 .2007 will be accepted. The candidates who are reconverted to Hinduism from Christianity of Scheduled caste origin should produce community certificate from the Tahsildar concerned along with a copy of Gazette Notification regarding reconversion.
(c) The claims for reservation under Scheduled Castes/ Scheduled Tribes quota will also be subject to verification and clearance by the Screening Committee constituted for the purpose by the Government vide G.O. (P) No.19/2002/ SCSTDD dated 20.4.2002 and as authorised by Section 6 of the Kerala (Scheduled Castes and Scheduled Tribes) Regulation of Issue of Community Certificates Act, 1996 (Act 11 of 1996).
(d) The SC/ ST claims in respect of those who have migrated from one state to another will be subject to the provisions of G.O. (MS) No.10/ 86/ SCSTDD dated 12.02.1986. Only the children of those who had migrated to this state before the promulgation of the Constitution (Scheduled Castes) Order 1950 and the Constitution (Scheduled Tribes) Order 1950, and who ordinarily reside in this State can claim SC/ ST benefits from the State of Kerala. They must be able to prove this, if required.
(e) WARNING : Those who produce false SC/ ST Certificate for claiming reservation under SC/ ST quota shall be liable for the penalties stipulated in section 15 of the Act referred to in clause (c) above. Candidates and their parents who make such applications are warned that in addition to prosecution they will have to suffer the following consequences, in case the $\mathrm{SC} / \mathrm{ST}$ certificate produced is found to be false and the candidate does not belong to any SC/ ST communities, under section 16 of the Act "Benefits secured on the basis of false community certificates will be withdrawn :
(i) Whoever not being a person belonging to any of the Scheduled Castes or Scheduled Tribes secures admission in any educational institution against a seat reserved for such castes or tribes or secures any appointment in the Government, Government Undertakings, Local Authority or in any other Company or Corporation owned or controlled by the Government or in any aided institution against a post reserved for such castes or tribes or enjoys any other benefits intended exclusively for such castes or tribes by producing a false community certificate shall, on cancellation of the false community certificate, be removed by cancelling the irregular admission in the concerned educational institution, or as the case may be, removed from the said service forthwith and any benefit enjoyed by him as aforesaid shall be withdrawn forthwith.
(ii) Any amount paid to such person by the Government or any other agency by way of scholarship, grant, allowance, stipend or any other financial benefit shall be recovered as if it is arrears of public revenue due on land.
(iii) Any degree, diploma or any other educational qualifications acquired by such person after securing admission in any educational institution on the basis of a false community certificate shall also stand cancelled on cancellation of the community certificate obtained by him."
(f) Claim of OEC candidates against the un-availed seats of SC/ ST candidates: Other Eligible Community (OEC) candidates who claim allotment to the un-availed seats, if any, under SC/ ST quota should apply in the application form meant for general candidates. They should furnish "Community" and "Income" Certificates obtained from the Village Officer concerned in the proforma contained in the body of the application form itself. Those OEC candidates whose annual family income is upto Rs. 2.5 lakhs alone are eligible for such seats. Relaxation in marks in the qualifying examination as in the case of SEBC candidates will be applicable to OEC candidates.

## Application, submitted in form other than in the application form meant for general candidates, will be summarily rejected without any further intimation in this regard. The list of Other Eligible Communities is qiven in Annexure X.

(g) Claim for fee concession to OEC candidates: Candidates belonging to other eligible communities are exempted from payment of fee at the time of allotment to professional Degree Courses under Government/ Community quota irrespective of annual family income as per G.O. (MS) No. 36/07/SCSTDD dated 03.07.2007. They should provide Community certificate from the Village Officer in the Application Form.

### 5.5 Other general rules for Special/Mandatory Reservation :

5.5.1 The seats unavailed by the Scheduled Castes candidates will go to the Scheduled Tribes candidates and vice versa.
5.5.2 The seats unavailed by the SC/ ST candidates will go to "Other Eligible Community" (OEC) candidates. The seats that still remain unavailed of will go to the State Merit Quota (State wide basis).
5.5.3 The seats unavailed by the SEBC category candidates will be allotted under State Merit.
5.5.4 If any seat, in any special reservation quota, is left un availed by the candidates belonging to that particular category, those seats will go to the Mandatory reservation quota, unless otherwise stated.
5.5.5 The seats falling vacant under the All India Quota for MBBS/ BDS, when released to the State as well as the seats unfilled in these courses after 17.09.2009 under the Nomination categories given under Clause 4.1.11(a)\&(b), will be added to the Mandatory reservation quota and the total seats revised under mandatory reservation quota will be re-distributed and allotted as per the mandatory reservation principles. The Director of Medical Education will inform the CEE of such seats on or before 18.09.2009.
5.5.6 The seats unfilled under the Govt. of India/Reciprocal Quota after 17.10.2009 for Engineering/ Architecture courses will be added to the Mandatory reservation quota and the total seats revised under mandatory reservation quota will be re-distributed and allotted as per the mandatory reservation principles. The Director of Technical Education will inform the CEE of such seats on or before 18.10.2009.
5.5.7 The seats unfilled under the VCI/ICAR for BVSc. \& AH after 18.10.2009 will be added to the Mandatory reservation quota and the total seats revised under mandatory reservation quota will be re-distributed and allotted as per the mandatory reservation principles. The Registrar, Kerala Agricultural University will inform the CEE of such seats on or before 18.10.2009.
6. CRITERIA OF ELIGIBILITY FOR ADMISSION
6.1 Nativity : Only Indian citizens are eligible for admission to Professional courses unless otherwise notified. Holders of Persons of Indian Origin (PIO) Cards/ OCl (Overseas Citizen of India) will also be treated at par with Indian citizens for the limited purpose of admission.

Candidates seeking admission to Professional courses will be categorised as Keralite, NonKeralite (Category I) and Non-Keralite (Category II).
(i) Keralite : A candidate of Kerala origin will be categorised as a 'Keralite'. Children of All India Service (AIS) officers (Non-Keralites) allotted to Kerala cadre are deemed to be 'Keralites' as per G.O. (Rt) No. 822/08/H. Edn. dated 29/05/2008. But they will not be eligible for Communal/ Special/ Persons with Disabilities reservation.
(ii) Non-Keralite (Category I) [NK I] : A candidate who is not of 'Kerala origin' but who has undergone the qualifying course in Kerala, and who is the son/ daughter of the following categories of Non-Keralite parents will be categorised as Non-Keralite (Category I) :
(a) Employees of the Government of India and Defence personnel, posted to Kerala.
(b) Employees, who are serving the Government of Kerala, subject to the condition that the employees have served in the State of Kerala or for the State of Kerala, for a minimum period of two years.
Non-Keralite (Category I) candidates will be considered against 'State Merit' seats only for Engineering/ Medical and allied courses and will not be eligible for Communal/Special/ Persons with Disabilities reservation.
(iii) Non-Keralite (Category II) [NK II] : Candidates who do not come under 'Keralite' or 'NonKeralite (Category I)' will be categorised as 'Non-Keralite (Category II)'. Such candidates are not eligible for admission to the Engineering courses in Government/ Aided/ KAU Engineering colleges or to Medical/ Agriculture \& Allied courses in Government/ Aided/ KAU colleges. Such candidates are only eligible for admission to Engineering courses in Management quota seats in Self financing institutions sponsored by Government and in the Government seats in Private Self financing Colleges, which will be notified separately.

Note :
(a) The following categories of candidates will not be governed by clauses (i), (ii) and (iii) above:
Candidates to be admitted in respect of seats reserved for the nominees of Government of India, Government of Puducherry, Administration of Union Territory of Andaman \& Nicobar Islands, Lakshadeep Administration, Jammu \& Kashmir, candidates selected through the All India Entrance Examination for MBBS/BDS courses and candidates sponsored under reciprocal quota by Govt. of Karnataka/ Tamil Nadu.
(b) Candidates, who are children of employees of UNICEF and other Agencies of United Nations, and children of persons who are not domiciled in the State, but are permanently employed in any Government recognised institutions, are eligible for admission to the Degree Courses in Engineering. They will be treated as 'Non-Keralite (Category I)' candidates.
6. 1.1 Certificates to prove Nativity
(a) Keralites : In order to prove that a candidate is an Indian Citizen of Kerala origin for the limited purpose of eligibility for admission, he/ she has to produce one of the following certificates:
(i) The true copy of the relevant page of Secondary School Leaving Certificate showing the place of birth in Kerala of the candidate. OR
(ii) The true copy of the relevant page of the Secondary School Leaving Certificate showing Place of Birth in Kerala of either of the parents of the candidate with corroborative certificate to establish the relationship between the parent and the candidate. OR
(iii) The true copy of the relevant page of the Passport, issued by Government of India, of the candidate, showing Place of Birth in Kerala or of either of the parents of the candidate showing Place of Birth in Kerala with corroborative certificate to establish the relationship between the parent and the candidate.

OR
(iv) A certificate of birth from the authority competent to register birth (Panchayat/ Municipality /Corporation) showing the candidate's or either of the parents (in which case corroborative
certificate to establish the relationship between the parent and the candidate is necessary) place of birth in Kerala, to be issued by a competent officer of the registering authority.

OR
(v) A certificate from the Village Officer/Tahsildar to show that the candidate or his/her father/ mother was born in Kerala (This is to be obtained in the body of the application form).

OR
(vi) A certificate of residence from the Village Officer/Tahsildar to the effect that the candidate has been a resident of Kerala State for a period of five years within a period of twelve years (to be obtained in the body of the application form). OR
(vii) A Certificate showing School Studies in Kerala from Std. VIII to XII obtained from the Head(s) of the educational institution(s) in Kerala in the case of candidates who have undergone school studies in Kerala to prove that the candidate has undergone his/ her studies in the schools in Kerala from Std. VIII to XII. This certificate is to be obtained in the body of the application form itself (For details regarding the Certificate showing School Studies in Kerala from Std. VIII to XII, see Annexure XII).
(viii) A certificate from the competent authority showing that the parent of the candidate is an All India Service officer allotted to Kerala cadre.
(b) Non-Keralites (Category I): In the case of Non-Keralites (Category I), a 'Certificate to be issued by the Employer' is to be obtained in the body of the application from the Head of the organisation, where the candidate's parent (employee) is serving, and the 'Certificate showing School studies in Kerala for Stds. XI \& XII' is to be obtained from the Head of institution where the candidate underwent his/ her qualifying course in Kerala to satisfy the nativity condition under the sub-clause 6.1(ii).
(c) Non-Keralites (Category II) : They should furnish the 'Certificate of Completion of Qualifying Examination' in the body of application form itself to prove their nativity.

### 6.2 Academic Eligibility :

6.2.1 Medical and Agricultural courses :
(a) Candidates who have passed Higher Secondary examination of the Board of Higher Secondary Education, Kerala, or examinations recognised equivalent thereto, with 50\% marks in Biology separately, and 50\% marks in Physics, Chemistry and Biology put together, are eligible.

Only those candidates who secure 50\%marks in the Medical Entrance Examination (Paper I and II taken together) will be considered for admission to MBBS / BDS Courses. Candidates belonging to SC/ ST/ SEBC will be considered for admission to these courses only if they have scored a minimum of $40 \%$ marks in the Medical Entrance Examination (Paper I and II taken together).
(b) For admission to BVSc. \& AH Course, candidates should have secured not less than $50 \%$ aggregate marks in English, Physics, Chemistry and Biology at the qualifying examination, in addition to the condition as stipulated in clause 6.2.1(a) as per regulation 5 of Minimum standards of Veterinary Education Degree Course (BVSc \& AH) Regulation, 1993. Relaxation in marks is permissible as stipulated in clause 6.2.4.
(c) Candidates who have passed the BSC Degree (Three year course) examination with Physics, Chemistry, Zoology, Botany, or Biochemistry as Main, and any one or two of the above subjects as Subsidiaries, with $50 \%$ marks for Main \& Subsidiaries taken together, subject to the condition that they have passed Higher Secondary Examination, Kerala or examinations recognised as equivalent thereto with Physics, Chemistry and Biology as optional subjects are eligible for admission to MBBS, BDS, BAMS, BHMS \& BSMS courses.
6.2.2 Engineering courses :
[Including B.Tech (Ag. Engg.) and B. Tech (Dairy Sc. \&Technology) courses under the Kerala Agricultural University]
(a) Candidates who have passed Higher Secondary Examination, Kerala, or Examinations recognized as equivalent thereto, with 50 \% marks in Mathematics separately, and 50 \% marks in Mathematics, Physics and Chemistry/ Bio-technology/ Computer Science / Biology put together are eligible for admission.
(b) Candidates who have a Diploma in Engineering awarded by the Board of Technical Examinations, or an examination recognised equivalent thereto, by the State Board of Technical Education after undergoing an institutional course of at least 3 years, securing a minimum of $50 \%$ marks in the final Diploma Examination are eligible for admission.
(c) Candidates who have passed Higher Secondary Examination, Kerala, or examinations recognised as equivalent thereto, with 50 \% marks in Mathematics/ Biology separately, and 50 \% marks in Physics, Chemistry and Mathematics/ Biology put together are eligible for admission to the seats reserved for Dairy Farm Instructors of Dairy Development Department for B.Tech. (D. Sc. \& Tech). However, the candidates admitted to the course have to take a make up course in Basic Mathematics $(2+0)$ credits or Applied Biology ( $1+1$ ) credit as the case may be.

## Note:

(i) Diploma in Engineering is not recognised as the academic eligibility for admission to the Engineering Colleges affiliated to Agricultural University.
(ii) The Vocational Higher Secondary Examination, Kerala, has been recognised as equivalent to the Higher Secondary Examination, Kerala.
(iii) In the case of candidates selected on the basis of the marks in the qualifying examination, $50 \%$ marks in Mathematics and $50 \%$ marks in Mathematics, Physics and Chemistry/ Biotechnology/ Computer Science / Biology put together are required. This is applicable to nominees of the Government of India and nominees to the reciprocal quota seats.
6.2.3 Architecture course :
(a) Minimum academic eligibility for admission to first year B. Arch.:
$10+2$ or equivalent examination from a recognised Board with Mathematics as a subject of study by securing 50\%marks in aggregate.

OR
10+3 Diploma (any stream) recognised by Central/ State Governments with $50 \%$ aggregate marks.

OR
International Baccalaureate Diploma, after 10 years of schooling, with not less than $50 \%$ marks in aggregate and with Mathmatics as compulsory subject of examination.
(b) In addition to the academic eligibility prescribed under clause 6.2 .3 (a), only those candidates who score $40 \%$ or 80 marks out of 200 (for all categories of candidates) in the National Aptitude Test in Architecture (NATA) will be considered for admission to B. Arch. course. There is no relaxation in the minimum passing score of NATA to any category of candidate as per letter No. CA/ 5/ Academic-NATA dated 11.03.2008.
(c) There is no provision for lateral admission to the second year or at any stage during the 5 year course in Architecture.
(d) Candidates who have a Diploma in Engineering awarded by the Board of Technical Examinations, or an examination recognized equivalent thereto, by the State Board of Technical Education after undergoing an institutional course of at least 3 years, securing a minimum of $50 \%$ marks in the final Diploma Examination are eligible for admission to B. Arch. Course.

### 6.2.4 Relaxation in marks :

For all the courses, candidates belonging to Socially and Educationally Backward Classes (as per G.O. (P) No. 208/ 66/ Edn dated 2.5.1966 and amendments thereof), with a total annual family income not exceeding Rs. 2.5 lakhs, will have a relaxation of $5 \%$ marks in the qualifying examination. They need only $45 \%$ marks in the case of Mathematics/ Biology and $45 \%$ marks in the case of optional subjects put together. The Scheduled Castes and Scheduled Tribes candidates need only a pass in the qualifying examination. However, for admission to MBBS/ BDS courses, candidates belonging to SC/ ST categories need $40 \%$ marks in Physics, Chemistry and Biology put together in the qualifying examination, (as per the Guidelines of Medical Council of India). Provided that in cases where grades only are given for qualifying examination and marks are not mentioned, the grade covering $45 \%$ marks will be considered as criterion for eligibility.

The relaxation of marks in the qualifying examination extended to SEBC candidates only will be applicable to OEC candidates even if they are allotted against the unavailed seats of SC/ ST quota. Also refer clause 5.4.3 (f).
6.2.5 Candidates who have appeared for the Higher Secondary or equivalent examination or Diploma in Engineering will also be permitted to take the Entrance Examination provisionally. The candidates should have appeared for the qualifying examination before taking the Entrance Examination. Such candidates should prove their academic eligibility on the date of admission.
6.2.6 Candidates referred to in clause 6.2.1(c) who have only appeared or are appearing for the BSC . Degree Examination, are not eligible to apply as per Clause 6.2.5.
6.2.7 No rounding off of the percentage of marks to the nearest whole number is permitted. For example, a score of 50 marks out of 100 or 150 marks out of 300 alone will be considered as $50 \%$ marks and scores of 45 out of 100 or 135 out of 300 alone will be considered as $45 \%$ marks for determining eligibility.
6.3 AGE:
6.3.1 Applicants should have completed $\mathbf{1 7}$ years of age as on the $\mathbf{3 1}{ }^{\text {st }}$ December 2009. No relaxation in the minimum age will be allowed. There is no upper age limit.
7. APPLICATION FORMS FOR THE ENTRANCE EXAMINATION
7.1 Application forms:

There is only a single application form for applying for the Entrance Examination for admission to all the courses (Medical, Engineering and Architecture). If a candidate submits more than one application his/ her candidature is liable to be cancelled.
7.2 Application Fee:
7.2.1 There will be separate application forms for 'General' and 'SC/ ST' candidates. (A candidate who does not belong to SC/ ST communities will be treated as a 'General' candidate for this purpose)
The application fee for all candidates will be as follows.

| General | $:$ | Rs. $700 /-$ |
| :--- | :--- | :--- |
| SC / ST | $:$ | Rs. $350 /-$ |

Candidates referred to in Clause 5.4.2 (h), who are children of inter-Caste married couple of which one is SC/ST who will be eligible for educational and monetary benefits admissible to SC/ ST as per Clause 2 (ii) of GO (MS) No. 25/ 2005/ SCSTDD dated 20.6.2005, should apply in the form meant for SC/ST. They should attach an inter-caste marriage certificate from the Revenue officials with the application form.
7.2.2 Candidates choosing a Centre outside the country will have to remit an additional fee of Rs.8,500/- along with the application form by way of a Demand Draft (DD) drawn on a Nationalised Bank, in favour of the Commissioner for Entrance Examinations, payable at Thiruvananthapuram, along with their application. (Such candidates should give a local contact number, if available, in their application in the appropriate place). Candidates opting for examination centres outside the country will be allotted the centre of their choice only if their application is accompanied by the DD as mentioned above. In the absence of this, they will be allotted a centre within the country.
7.2.3 Candidates desirous of getting admission to Architecture Course and having the required minimum qualification mentioned under Clause 6.2 .3 will have to appear for the "National Aptitude Test in Architecture" (NATA), conducted by the National Institute for Advanced Studies in Architecture (NIASA). They should appear for NATA in such a manner that they can submit their NATA score to the CEE as stipulated in clause 9.7.9. The details will be notified separately. Candidates applying for the Engineering and/or Medical Entrance Examination and opting for Architecture also will have to appear for the 'National Aptitude Test in Architecture', as mentioned above.
7.3 Availability of Application Forms :
(i) Application form and Prospectus can be obtained from selected branches of State Bank of Travancore (SBT) in Kerala and outside the state (to be notified later), on payment of the prescribed fee (Rs. 700/ - or Rs. $350 /$ - as the case may be), by cash at the bank counter. List of branches of Bank through which application forms will be issued will be notified separately. Application forms will not be available by Post or from the Office of the Commissioner for Entrance Examinations.
(ii) Candidates who do not claim any reservation benefit can apply in the prescribed application form (which can be downloaded from the website 'www.cee-kerala.org'). The application fee of Rs. 700 / - can be remitted in any branch of State Bank of Travancore (SBT) using the chalan provided along with the downloaded application form. The original chalan should be attached with the application form duly signed and authorised by the authorities of SBT. Those candidates who reside outside the state and do not claim any reservation benefit can apply in the downloaded form along with a Demand Draft for Rs. $700 /$ - drawn on a Nationalised Bank in favour of the Commissioner for Entrance Examinations payable at Thiruvananthapuram. Those candidates who choose centre in Dubai will have to make the remittances as per Clause 7.2.2, if applicable, along with their application.
Note: The Application fee/additional fee once remitted will not be refunded under any circumstances.
7.4 Instructions for filling the Application Form :
(a) The detailed instructions for filling each item in the application are given in Annexure XX of the Prospectus.
(b) Applications should be complete in all respects. A candidate will be considered for the Entrance Examination or for admission, only if he/ she has furnished the relevant certificates prescribed in the Prospectus, in proof of eligibility, or in support of any claim for reservation, under any category.
(c) The main application form is accompanied by an OMR (Optical Mark Reader) data sheet. The data as marked in the OMR data sheet will be captured by the OMR machine, which will be used for processing in computer. Hence, the entries made against each item in the OMR data sheet should tally with the corresponding entries in the main application form. Any mistake in filling this sheet or providing false/incomplete/ wrong information will affect the candidate's eligibility for admission or claim for reservation under any category. It is obligatory that the candidate should fill all the items in the main application form and OMR data sheet.
7.5 Certificates/ Documents to be submitted with the Application :
7.5.1 To prove Nativity:
(a) For Keralites:
(i) True copy of relevant page of Secondary School Leaving Certificate showing the place of birth in Kerala, of the candidate. OR
(ii) True copy of the relevant page of the Secondary School Leaving Certificate showing Place of Birth in Kerala, of either of the parents of the candidate with corroborative certificate to establish the relationship between the parent and the candidate.

OR
(iii) True copy of the relevant page of the Passport of the candidate issued by Government of India, showing Place of Birth in Kerala or of either of the parents of the candidate showing Place of Birth in Kerala with corroborative certificate to establish the relationship between the parent and the candidate. OR
(iv) A certificate of birth from the authority competent to register birth (Panchayat/ Municipality/ Corporation) showing the candidate's or either of the parent's (in which case
corroborative certificate to establish the relationship between the parent and the candidate is necessary) place of birth in Kerala, to be issued by a competent officer of the registering authority.

OR
(v) A certificate from the Village Officer/Tahsildar to show that the candidate or his/her father/ mother was born in Kerala. This is to be obtained in the body of the application form (Certificate No 13.1(a) on page 2 of the Application form).
(vi) A certificate of residence [Certificate No 13.1(a) on page 2 of application form] from the Village Officer/ Tahsildar to the effect that the candidate has been a resident of Kerala State for a period of five years within a period of twelve years (to be obtained in the body of the application form).

OR
(vii) A Certificate showing School Studies in Kerala from Std. VIII to XII obtained from the Head(s) of the educational institution(s) in Kerala in the case of candidates who have undergone school studies in Kerala to prove that the candidate has undergone his/ her studies in the schools in Kerala from Std. VIII to XII. [Certificate No 13.1(b) on page 2 of application form]. This certificate is to be obtained in the body of the application form itself.
(viii) A certificate from Govt./ Competent Authority showing that the parent of the candidate is an All India Service officer allotted to Kerala Cadre.
(b) For Non-Keralites (Category I):

A 'Certificate to be issued by the Employer' along with the 'Certificate showing school studies in Kerala for class XI \& XII' (Certificate Nos. 13.2 (a) and 13.2 (b) to be obtained on page 3 of the application form).
(c) For Non-Keralites (Category II):

A 'Certificate of Completion of Qualifying Examination' (Certificate given below in item 13.3 on page 3 of the application form).
7.5.2. To claim Communal Reservation: Only 'Keralites' are eligible for Communal Reservations.
(a) Community and income certificates to be obtained in the body of the application form (Certificates given on page 5 of the application form for General Candidates) for claiming reservation under SEBC quota, and OEC claim for Government Seats.
(b) Community certificate for claiming reservation under SC/ ST, for Govt. seats to be obtained in the body of the application form (Certificate given on page 5 of the application form for SC/ ST candidates).
(c) Inter-Caste marriage certificate in the prescribed format from the authorities concerned for reservation under SEBC as per the conditions specified in clause 5.4.2 (g). Candidates referred to in Clause 5.4.2 (h) also should produce Inter-Caste marriage Certificate from Revenue Officials. Proforma of the certificate is given in Annexure XV.
7.5.3 To claim Special Reservation : Candidates should produce copies of the certificates from the authority concerned in support of any special reservation claimed by them (See clause 5.2).
7.5.4 To claim reservation under 'Person with Disabilities' : Medical certificate from the District Medical Board as stipulated in clause 5.3.
7.5.5 To claim any fee concession/scholarship : Candidates belonging to 'Keralite' category as defined in Clause 6.1(i), who are not eligible for communal reservation benefit and who wish to be considered for any fee concession/ scholarship/ any other benefit based on the family income, that may be announced by the Government/ College/ Admitting authority at any time after the submission of application, should submit the income certificate from the concerned authorities in the body of the application form (Certificate under item No. 16 on Page 5 of the Application form), at the time of submission of application itself, to avail of such concessions. Income certificates attached separately or produced after submission of application form will not be considered for granting any such concession.
Note: Certificates without the signature of the issuing authority or that are incomplete will be treated as defective and such certificates will not be considered for granting any claim.
7.6 Enclosures to be submitted with the filled in Application form :
(a) The OMR data sheet duly filled-in.
(b) Self- attested copy of the relevant page of the SSLC or equivalent certificate to prove date of birth in case Date of Birth is not Certified in the Course Certificate issued by the Head of the Institution, in the Application form.
(c) Self-attested copies of mark lists of ALL PARTS of the BSc. Degree Examination and Higher Secondary or equivalent Examination with Physics, Chemistry and Biology as optional subjects, in case of those seeking admission to Medical courses as per Clause 6.2.1 (c).
(d) Self-attested copies of certificates as proof in support of any claim for special reservation.
(e) Self-attested copies of Inter-caste marriage certificate, if applicable.
(f) Self-attested copy of Medical certificate from the District Medical Board in the case of 'Persons with disabilities' [PD].
7.7 (i) Those seeking admission to Medical courses as per Clause 6.2.1, will be permitted to appear for the Entrance Examination only if they satisfy the academic eligibility conditions at the time of submission of application.
(ii) All Candidates who have passed/ are APPEARING for the Higher Secondary or equivalent examination will be provisionally admitted to the Entrance Examination, if they otherwise satisfy the eligibility conditions. They should produce the original mark lists of the qualifying examination passed, at the time of admission.
7.8 (a) IMPORTANT: DOCUMENTS OR CERTIFICATES FURNISHED AFTER THE SUBMISSION OF THE APPLICATION WILL NOT BE ENTERTAINED UNDER ANY CIRCUMSTANCES. *
(b) NO OPPORTUNITY WILL BE GIVEN TO INCORPORATE ANY DETAILS AFTER THE SUBMISSION OF THE APPLICATION.*
(c) INCOME CERTIFICATE \& COMMUNITY CERTIFICATE ATTACHED SEPARATLEY, ALONG WITH DOWNLOADED APPLICATIONS WILL NOT BE CONSIDERED.
*Refer to the ruling of the Honorable High Court of Kerala in 1995(2) KLT 629, 1999(2) KLJ 836 and 1999(3) KLT 773.
8. SUBMISSION OF APPLICATION FORMS : THE FILLED IN APPLICATION FORM, THE OMR SHEET AND ALL REQUIRED CERTIFICATES/DOCUMENTS ALONG WITH THE DEMAND DRAFT (IF APPLICABLE), SHOULD BE ENCLOSED IN THE ENVELOPE ADDRESSED TO 'THE COMMISSIONER FOR ENTRANCE EXAMINATIONS, HOUSING BOARD BUILDINGS, SANTHI NAGAR, THIRUVANANTHAPURAM-695 001' (SUPPLIED ALONG WITH THE APPLICATION FORM) SO AS TO REACH THE ADDRESSEE BY REGISTERED POST/SPEED POST/HAND DELIVERY, BEFORE THE LAST DATE AND TIME NOTIFIED BY THE COMMISSIONER.

## WARNING : BELATED APPLICATIONS WILL BE REJ ECTED

## 9. EXAMINATION

9.1 Venues:

Entrance Examinations will be held at the selected venues in all Districts in the State, New Delhi and Dubai.
9.1.1 No request for change in the Examination centre will be entertained.
9.2 Papers/ Subjects in the Entrance Examinations:

GO (MS) $153 / 99 / \mathrm{H}$. Edn. dated 22.11.1999 stipulates that the Entrance Examinations for Engineering and Medical/ Agricultural courses will be conducted separately, each test with a relative weight of 5:3:2 in Mathematics, Physics \& Chemistry in Engineering Entrance Examination and in Biology, Chemistry \& Physics for Medical/Agricultural Entrance Examination.

As per the Guidelines issued by the Council of Architecture, there will be a centralised mechanism of conducting a "National Aptitude Test in Architecture" (NATA), which is mandatory for admission to the 5 -year B. Arch. Course in all Architecture institutions in the country, which includes NITs and IITs, Government institutions, Government Aided institutions, Universities, Deemed Universities and Private Universities formed by a Central or State Legislature and other Private Self-financing institutions. The CEE will not conduct 'Aptitude Test' for B. Arch. Course in view of the guidelines issued by the Council of Architecture.
9.2.1 (a) Papers for the Engineering Entrance Examination:

Paper I - Physics \& Chemistry
Paper II - Mathematics
Each Paper will be of two and a half hours duration.
(b) Papers for the Medical/ Agricultural Entrance Examination:

Paper I - Chemistry \& Physics
Paper II - Biology
Each Paper will be of two and a half hours duration.
9.2.2 Candidates desirous of being considered for the entire Medical and Agricultural courses, will have to write both papers of the Medical Entrance Examination.
9.2.3 Candidates desirous of obtaining admission to the Agricultural courses, except B.Tech. (Ag. Engg.), B.Tech. (DSc. \& Tech.), will have to write Paper I-Chemistry \& Physics and Paper II - Biology of Medical Entrance Examination. For being considered for B. Tech. (Ag. Engg.) and B. Tech. (DSc. \& Tech.) they have to appear for Paper I-Physics \& Chemistry and Paper II -Mathematics of Engineering Entrance Examination.
9.2.4 Candidates who wish to be considered ONLY for Engineering courses [including B.Tech. (Ag. Engg.) and B. Tech. (DSc. \& Tech.) under the Kerala Agricultural University], will have to write Paper I - Physics \& Chemistry and Paper - Il Mathematics of the Engineering Entrance Examination.
9.2.5 Candidates desirous of being considered for Medical/ Agricultural Courses and Engineering Courses will have to write both the Entrance Examinations in full.
9.2.6 Candidates desirous of being considered for admission to the Architecture Course will have to appear for the "National Aptitude Test in Architecture" (NATA) and become eligible for inclusion in the rank list for admission to Architecture course. Candidates included in the Engineering rank list will not be considered for admission to B. Arch. course based on their Engineering rank.
9.2.7 Candidates desirous of being considered for Medical, Agricultural and Engineering Courses will have to write all the papers prescribed for the Engineering/Medical Entrance Examinations. Candidates desirous of being considered for Architecture course also should appear for the "National Aptitude Test in Architecture" (NATA) to be conducted by the 'National Institute for Advanced Studies for Architecture', an academic unit of the Council of Architecture, India.
9.3 Non - appearance in any Paper:
9.3.1 A candidate NOT appearing in any one of the relevant papers, in a particular Group (Engineering or Medical/ Agricultural), will be disqualified, and WILL NOT be considered for ranking in that particular group.
In other words, appearance in the two relevant papers: Paper I - Physics \& Chemistry and Paper II - Mathematics for Engineering, Paper I - Chemistry \& Physics and Paper II - Biology for Medical/Agricultural Courses is compulsory for being considered in the respective rank lists.
9.3.2 Only those candidates having the prescribed minimum qualifying marks as stipulated under Clause 6.2.3 and having a valid 'NATA' score will be considered for preparing the rank list of Architecture Course. [Also see clause 9.7.4 (f)(ii)]
9.3.3 Appearance of a candidate in the Entrance Examination, or inclusion of a candidate in the rank lists or allotment does not entitle him/ her for admission to a course, unless the rules
regarding eligibility for admission, as laid down in the Prospectus under various Clauses, are satisfied.
9.4 Scheme of the Examinations:
9.4.1 The Entrance examination for Medical and Engineering streams will be objective type with Multiple Choice Questions and based on single response. For each question, five suggested answers would be given, of which only one will be the MOST APPROPRIATE RESPONSE. The candidate will have to select and mark the alphabet ( $\mathrm{A}, \mathrm{B}, \mathrm{C}, \mathrm{D}$ or E ) corresponding to the most appropriate response in the OMR Answer Sheet. (A specimen answer sheet is appended).
9.4.2 The question paper for objective type examinations will be given in the form of Question Booklets. Candidates will be permitted to take the question booklet with them at the end of examination.
9.4.3 For Engineering and Medical Entrance Examinations, each Paper will have 120 questions to be answered in 150 minutes.
9.4.4 Scoring, negative marks: For each correct response in the Engineering and Medical Entrance Examinations, the candidates will be awarded FOUR marks, and for each incorrect response, ONE mark will be deducted from the total score. For all these papers, in the event of failure to answer a question, (that is, no response is indicated against a question in the answer-sheet) no deduction from the total score will be made. More than one answer indicated against a question will be deemed as incorrect response, and will be awarded negative marks. Therefore the candidates are advised not to attempt an answer, if they are not sure of the response, because mere guessing may lead to choice of wrong answers, with the consequent penalty of negative marks.
9.5 The standard of the examination:
9.5.1 The standard of the Entrance Examinations will be that of Higher Secondary or equivalent examinations. The syllabi for all the subjects for the Entrance Examination are given in Annexure I of the Prospectus.
9.5.2 The syllabi published along with the Prospectus are only outlines of the topics that will be covered in the examination. Since the examinations are of highly competitive nature and the cream of the competing students has to be found out through a process of elimination, application questions of higher order on the topics included in the published syllabi can be expected. Questions are not based on NCERT textbook or any other textbook exclusively.
9.6 The conduct of Examinations:

### 9.6.1 Dates of the Entrance Examinations:

The Entrance Examinations will be conducted at selected venues as per the following schedule and as per Indian Standard Time:
Engineering Entrance Examination:

| 20.04.2009 <br> Monday | 10.00 am to 12.30 pm | Paper I - Physics \& Chemistry |
| :--- | :---: | :--- |
| $\mathbf{2 1 . 0 4 . 2 0 0 9}$ <br> Tuesday | 10.00 am to 12.30 pm | Paper II - Mathematics |

Medical/ Agriculture Entrance Examination:

| 22.04.2009 <br> Wednesday | 10.00 am to 12.30 pm | Paper I - Chemistry \& Physics |
| :--- | :---: | :--- |
| 23.04.2009 <br> Thursday | 10.00 am to 12.30 pm | Paper II - Biology |

### 9.6.2. Admit Cards:

(a) The admit card for the Entrance Examinations, will be sent to the eligible candidates after assigning the roll numbers. No admit card will be sent to candidates who apply only for admission to B. Arch. Course, but their Roll numbers will be intimated.
(b) The venue of the examination and time table will be noted in the admit card. The provisional reservation allowed/disallowed will be noted therein.
(c) Non-receipt of Admit Cards : Admit cards to the eligible candidates will be sent in the address mentioned in the OMR data sheet. Rejection memo will be sent to the candidate whose application has been rejected. Candidates who do not get the Admit card but whose application has been accepted will be issued an 'Identification Certificate' through the concerned Liaison Officer present at the places noted below, between $9 \mathrm{am} \& 1 \mathrm{pm}$ on 19.04. 2009.

The candidate himself/herself should meet the Liaison Officer with (i) his/her photograph attested on a plain paper by a Gazetted officer / by the Head of the Institution where the candidate is studying or has studied and (ii) an identical photograph which has to be affixed in the Identification Certificate. In the event of non-receipt of admit cards, duplicate admit cards or Identification Certificates will not be issued to the candidates from the Office of the Commissioner for Entrance Examinations, directly.
(d) A candidate who does not possess either the admit card or identification certificate issued by the Liaison officer, will not be admitted to the examination hall, under any circumstances.
9.6.3 Location of Liaison Officers :

| Thiruvananthapuram | Govt. Model HSS, Thycaud,Trivandrum | $0471-2323641$ |
| :--- | :--- | :---: |
| Kollam | Govt. Model BHSS, Thevally, Kollam | $0474-2794892$ |
| Pathanamthitta | Govt. HSS, Pathanamthitta | $0468-2222629$ |
| Alappuzha | Govt. Mohammadans Girls HS, Alappuzha | $0477-2260227$ |
| Kottayam | Govt. Model HSS, Kottayam | $0481-2582932$ |
| Idukki | Govt. HSS, Thodupuzha | $0486-2223217$ |
| Ernakulam | SRV Govt. Model VHS School, Ernakulam | $0484-2376944$ |
| Thrissur | Govt. Model HSS for Boys, Thrissur | $0487-2331063$ |
| Palakkad | Govt. Model Moyan HSS for Girls, Palakkad | $0491-2544747$ |
| Malappuram | Govt. Girls HSS, Malappuram | $0483-2738115$ |
| Kozhikkode | Govt. Model H S School, Kozhikode | $0495-2722509$ |
| Wyanad | Govt. VHS School, Kalpetta | $04936-204082$ |
| Kannur | Govt. VHS School, Civil Station, Kannur | $0497-2700891$ |
| Kasaragod | Govt. V.H. S. S. for Girls, Kasaragod | $04994-230368$ |
| New Delhi | Kerala House, New Delhi | $011-30411411$ |
| Dubai | The Indian High School, Oudh Mehta Road, <br> P O Box No.106, Dubai, UAE | $009714-3377475$ |

### 9.6.4. Important:

If any candidate has any genuine complaint regarding the conduct of the examination, he/ she may register his/ her complaint, before the Chief Superintendent of the examination centre, with supporting details/ information, immediately after the particular examination is over. Complaints relating to the conduct of the examination received directly in the Office of the Commissioner for Entrance Examinations will not be entertained.
9.7 Declaration of Results :
9.7.1 The Commissioner for Entrance Examinations will publish the "Answer keys" of all Papers of the Entrance Examinations in the website of the CEE (www.cee-kerala.org) and in leading dailies, after the completion of all the examinations.
9.7.2 If any candidate has any complaint regarding the answer keys, the same should be submitted to the CEE in writing along with supporting documents within 7 days from the date of publication of the answer keys in the website of the CEE. Complaints received after the stipulated date will not be considered under any circumstances. Complaints received as Email/ Fax will not be considered on any account.
9.7.3 All complaints received will be referred to expert committees to be constituted by the CEE. The recommendations of the Committees will be final. Necessary modifications will be
made in the published answer keys based on the recommendations of the expert committees. Individual replies will not be given to the candidates on the decision of the Committees.

### 9.7.4 Preparation of Rank Lists :

(a) There will be four separate rank lists for
i. Engineering Courses
ii. Architecture Course
iii. Medical and Agricultural Courses
iv. BAMS Course

The Rank List(s) published by the CEE shall not be utilized by any person/ institution/ authority other than CEE for the purpose of admission to any Professional Course(s), without prior written permission of the Government of Kerala.
(b) The rank list for Engineering courses will be prepared on the basis of the total marks secured by the candidates in Paper-I (Physics \& Chemistry) and Paper-II (Mathematics) of the Engineering Entrance Examination.
(c) The rank lists for admission to B. Arch. Course will be prepared by giving equal weightage for the score obtained in the 'National Aptitude Test in Architecture' (NATA) and for the marks/ grade obtained in the Qualifying Examination by the candidate (As per guidelines of the Council of Architecture, India).
Note 1: Marks obtained by the candidate for the National Aptitude Test in Architecture (NATA) out of 200 will be added to the total marks/ *grades secured by the candidate in the Qualifying Examination computed out of 200. The Rank list will be prepared based on the total marks obtained by the candidate out of 400, computed as above (If *grades are awarded to candidates in their Qualifying Examination, it will be converted to equivalent marks for this purpose).
Note 2: Candidates to be considered for inclusion in the rank list for allotment to B. Arch. course in all institutions including private Self-financing Colleges have to appear for 'NATA' and secure minimum score as prescribed by COA. [Refer Clause 6.2.3 (b)]
(d) The rank list for Medical/Agricultural courses will be prepared on the basis of the total marks obtained in Paper I (Chemistry \& Physics) and Paper II (Biology) of the Medical Entrance Examination.
(e) Rank List for Ayurveda Course : A separate rank list for Ayurveda Course will be prepared based on the Medical Rank list. For candidates who have taken Sanskrit as their second language in Higher Secondary or equivalent examination, additional 10 marks will be added to the total marks secured by them in the Medical Entrance Examination (Paper I and Paper II together) for the preparation of Ayurveda rank list. For others, the total marks in the Medical Entrance Examination alone will be considered.
(f) Resolution of tie while ranking :
(i) Engineering: In the case of a tie in the total marks in the Entrance examination, candidates with higher marks in Mathematics in the Entrance Examination will be placed higher in the ranking. If the tie still exists, candidates with higher marks in Physics of the Physics \& Chemistry Paper will be placed higher in the ranking. If there is still a tie, the age of the candidate will be taken into account and the older will be placed higher in the ranking than the younger.
(ii) Architecture : In the case of a tie in the total marks computed out of 400 as described in Clause 9.7.4 (c) above, candidates getting higher score in 'NATA' will be placed higher in the ranking. If there is still a tie, candidates with higher marks in Mathematics in the Qualifying examination, will be placed higher in the ranking. If there is still a tie the age of the candidate will be taken into account and the older will be placed higher in the ranking than the younger.
(iii) Medical/Agriculture/Ayurveda : In the case of a tie in the total marks in the Entrance Examination, candidates with higher marks in Biology in the Entrance Examination will be placed higher in the ranking. If there is still a tie, candidates with higher marks in Chemistry of the Chemistry \& Physics Paper will be placed higher in the ranking. If there is still a tie, the age of the candidate will be taken into account and the older will be placed higher in the ranking than the younger.
9.7.5 Qualifying Standards in the Entrance Examination for admission to various courses :

To qualify in the Entrance Examination and thereby become eligible to figure in the rank list for Engineering, Medical, Ayurveda, a candidate has to score a minimum of $\mathbf{1 0}$ marks each in Paper I and Paper II. The candidates who do not score the minimum stipulated marks will not find a place in the Rank list. Such candidates will be shown as 'Disqualified'.

Candidates, disqualified in a stream are not eligible for admission to the concerned stream
Exemption : For SC/ST candidates there is no requirement of minimum marks in the Entrance Examination.
Qualifying Standards as stipulated by the MCl for admission to MBBS/ BDS Courses : Only those candidates who score $50 \%$ marks in the Medical Entrance Examination (Paper I \& Paper II together) will be considered for admission to MBBS/BDS courses. Candidates belonging to SEBC with annual income stipulation as given in Clause 5.4.2 and SC/ ST, will be considered for admission to MBBS/ BDS courses only if they have scored a minimum of $40 \%$ marks in the Medical Entrance Examination (Paper I \& Paper II together).
This is applicable to all candidates including those seeking admission to MBBS/ BDS courses under various 'Reservation'/ 'Special reservation' categories.
Qualifying Standards as stipulated by the Council of Architecture for admission to Architecture Course :
In addition to the academic eligibility prescribed under clause 6.2.3, only those candidates who score $40 \%$ or 80 marks out of 200 in the National Aptitude Test in Architecture (NATA) will be considered for admission to B. Arch. course. (As per guidelines of the Council of Architecture, India.)
9.7.6 Valuation of Answer Papers: A fully computerised system is being used for evaluation of answer scripts of objective type papers, using the Optical Mark Reading (OMR) System, and for the preparation of the rank lists and various merit lists. There is no provision for revaluation or rechecking of answer sheets as the valuation or scoring will be error-free. No correspondence in this regard will be entertained.
9.7.7 Publication of the Results : The rank lists for Engineering, Medical/ Agriculture, Ayurveda, and Architecture Courses will be published separately. The results will be available in the website "www.cee-kerala.org" and in other websites to be notified by the CEE.
9.7.8 The results and rank lists of the Engineering and Medical Entrance Examinations will be declared on or before $\mathbf{2 5}{ }^{\text {th }}$ May 2009.
9.7.9 Candidates seeking admission to Architecture course have to appear for the NATA test as mentioned under Clauses 1.4, 6.2.3, 9.2.7\& 9.7.5. Such candidates should submit :
(i) A self-attested photocopy of the mark list of their qualifying examination, (ii) an attested copy of the 'NATA' score sheet and (iii) a filled-in Proforma to be downloaded from the website of the CEE (www.cee-kerala.org), to the CEE so as to reach him on or before 12.06.2009. Detailed notification in this regard will be issued by the CEE, in due course.

The rank list for Architecture will be published after this date. The marks received on or before this date will be final and this mark alone will be considered for preparing the Architecture Rank list. The rank list so published will be final and the marks received subsequently will not be considered under any circumstances. Candidates not submitting the mark list and/ or 'NATA' score sheet on or before 12.6.2009 will not be considered for ranking. The CEE will not be responsible for any delay in publication of the result of the qualifying examination.
9.7.10 Validity of the rank lists: The rank lists published by the Commissioner for Entrance Examinations will be valid till 31.10.2009.

### 9.7.11 Publication of Provisional Category Lists :

(a) Separate provisional category lists will be published for Community reservation, Special reservation, Persons with Disabilities, etc.
(b) There will be separate category lists based on Engineering, Medical, Ayurveda, and Architecture rank lists. For MBBS and BDS Courses, a separate Category-wise list will be published based on the guidelines of the MCI.

Candidates are advised to verify the various merit/category lists published by the Commissioner for Entrance Examinations, and satisfy themselves regarding their position in the list, such as, inclusion under different categories, eligibility for communal/special reservation, etc. If candidates have any complaint in this regard he/ she may approach the Office of the Commissioner for Entrance Examinations, within ten days after publication of the lists concerned, for necessary action. Revised Category list will be published after considering the objections/ complaints, filed by the candidates. Complaint received thereafter will not be entertained under any circumstances. There will be no Select or Wait list.

## Complaints against category list are to be filed within $\mathbf{1 0}$ days of publication.

(c) Admission to the Entrance Examinations, and the rank obtained in the Entrance Examinations or inclusion in the merit lists or alotment, will not entitle the applicant for admission to the course, unless the applicant satisfies the rules regarding the eligibility for admission as laid down in the Prospectus. Furnishing of false particulars would result in the forfeiture of the candidature, as well as cancellation of admission to the course, and in addition, will attract the relevant provisions of the Criminal Laws of the Land. If any information or documents furnished along with the application by a candidate are found false or ineligibility for admission is detected before or after admissions, candidature of the applicant will be withdrawn and admission, if any, given will be cancelled.
10. SPECIAL INSTRUCTIONS TO THE CANDIDATES APPEARING FOR THE ENTRANCE EXAMINATIONS 2009.
Note: Read the following instructions carefully. Failure to observe instructions may upset the candidate's performance.
10.1 Reporting for the Examination :
(i) Candidates should bring Admit card, ballpoint pen (either blue or black in colour) and a card board/ clip board for the Examination.
(ii) Candidates will not be permitted to take items such as pencil, eraser, correction fluid, calculator, logarithm tables, electronic gadgets, etc. into the examination hall.
(iii) Candidate should be present at the examination hall, 30 minutes before the prescribed time for the commencement of the examination.
(iv) No candidate will be permitted to enter the examination hall, 30 minutes after the commencement of the examination.
(v) Candidates will be permitted to leave the examination hall only after completion of the examination.
10.2 Question paper:
10.2.1 The question papers will be given in the form of a question booklet. A candidate will be given the question booklet before the actual time prescribed for the commencement of the examination, to enable him/her to acquaint himself/herself with the instructions to be followed.
FACING PAGE LAYOUT OF QUESTION BOOKLET (Engineering \& Medical)

| WARNING:Any malpractice or any attempt to commit any kind of malpractice in <br> the Examination will DISOUALIFY THE CANDIDATE. |  |  |  |
| :--- | :---: | :---: | :--- |
| PAPER |  |  |  |
| Version Code |  | Question Booklet <br> Serial Number |  |
| Time : 150 Minutes | Number of Questions : 120 | Maximum Marks : 480 |  |
| Name of Candidate |  |  |  |
| Roll Number |  |  |  |
| Signature of Candidate |  |  |  |
| INSTRUCTIONS TO THE CANDIDATE |  |  |  |

10.2.2 Each question paper will have 4 versions as detailed below :

Engineering Entrance Examination :
Paper I - Physics \& Chemistry Versions - A1, A2, A3 \& A4.
Paper II - Mathematics
Versions - B1, B2, B3 \& B4.
Medical/Agricultural Entrance Examination :
Paper I - Chemistry \& Physics
Versions - A1, A2, A3 \& A4.
Paper II - Biology
Versions - B1, B2, B3 \& B4.
10.2.3 The question booklet version will be printed on the top left margin of the facing sheet of the question booklet.
10.2.4 If the Roll Number ends in an odd number, then the candidate should get a question booklet marked $\mathrm{A} 1 / \mathrm{B} 1 / \mathrm{A} 3 / \mathrm{B} 3$. If the Roll Number ends in an even number, then the candidate should get a question booklet marked A2/ B2/ A4/ B4.
10.2.5 On receipt of the question booklet the candidate should ensure that the Version Code printed in the OMR answer sheet and in the question booklet are the same.
10.2.6 If you get a question booklet where the version does not match your Roll Number as stipulated in 10.2.4, please draw the attention of the invigilator immediately, and get it replaced by a version that matches your Roll Number.
10.2.7 The question booklet serial number is printed on the top right margin of the facing sheet. If your question booklet does not bear a serial number, please get it replaced by a new question booklet of the same version having a booklet number printed.
10.2.8 Candidate must write his/ her name and roll number in the space provided in the Question booklet. The Roll Number should be written carefully. The column relating to the signature of the candidate should also be filled in (The signature should be identical with the signatures in the admit card and in the attendance sheet).
10.2.9 The question booklet will be sealed at the middle of the right margin. The candidate should not open the question booklet, until an indication is given by the invigilator to start answering at the scheduled time.
10.3 Answer Sheet:
10.3.1 Separate answer sheet (OMR Answer Sheet) having a copy of the original OMR sheet attached to it, will be given to mark the answers. Candidates should not detach the copy of the OMR sheet from the Original during the course of examination. All impressions made in the original OMR sheet will be carried over to the copy attached. Hence candidates, while making entries in the OMR sheet and while answering, should ensure that the copy of the OMR is always aligned with the original OMR sheet. Any change in alignment can result in variation of the position of the entries in the original and copy of OMR sheets. If any candidate detaches the copy before the conclusion of the examination, his/ her candidature is liable to be cancelled.
10.3.2 The evaluation of the answer sheet of objective type papers will be done using the OPTICAL MARK READING (OMR) System. Hence the answer sheet (OMR answer sheet) is designed to suit this system.

> 10.3.3 A specimen copy of the OMR answer sheet is included in the Prospectus. Each answer sheet will be having a unique pre-printed ' 'ARARODE' that will be used as a secret code against which the evaluation takes place. Candidates should not tamper with the BAR CODE. If a candidate tampers, mutilates or damages the barcode, he/ she will be disqualified and his/ her candidature will be cancelled. The answer sheet in respect of such candidates will not be subjected to valuation and they will be debarred from appearing for the Entrance Examinations for a period not exceeding two years.
10.3.4 IMPORTANT : Extra care is needed while handling the OMR Answer sheet in the following respects.

DO NOT: (i) Pin or staple (ii) Punch or tag (iii) Make holes anywhere (iv) Wet or soil (v) Tear or mutilate (vi) Wrinkle or fold the OMR Answer Sheet.
10.4 Filling in the OMR Answer Sheet:
10.4.1 Important:

All entries in OMR answer sheet are to be made with blue or black BALLPOINT PEN only.
Marking with fountain pen, gel pen, sketch pen or pencil is not permitted.
Use of any ink of colour other than blue or black is not permissible.
10.4.2 The answer sheet has two parts - "CANDIDATE'S DATA" on the left side and "ANSWERS" on the right with a thin perforation in between, length-wise. Fill in all the entries on the left side (Candidate's Data part) before beginning to answer questions.
(a) CANDIDATE'S DATA PART: (Left side of the sheet)

Please fill in the boxes and the appropriate bubbles with blue or black ballpoint pen.

1. Roll No.: Fill in and mark the Roll No. as given in the admit card with ballpoint pen. The Roll number should be entered without any corrections or overwriting.
2. Name: Fill up the item correctly and legibly. Name is to be entered as given in the admit card with ballpoint pen.
3. Fill up the Roll Number again.
4. Question booklet SI. No. has to be entered as given in the top right side of your question booklet.
5. Signature of the Candidate : The candidate has to sign in this box and should be identical with the signature affixed in the admit card and attendance sheet.
6. The item for signature of the invigilator will be filled in by the concerned person.
(b) ANSWER PART OF THE OMR SHEET : (Right side of the sheet)

Do not write your roll number or name or make any stray marks on this part of the sheet. Do the marking for answers only in the spaces provided (bubbles).

### 10.4.3 Method of marking :

(a) The Answer part of the OMR sheet (right side) consists of ovals, known as 'bubbles'. USE ONLY BALLPOINT PEN (BLUE OR BLACK) for filling (marking) these bubbles. Marking with any other colour or with sketch/ gel pen is not permitted.
(b) Each question will have five answers marked (A), (B), (C), (D) and (E). The most appropriate answer will have to be selected. Thereafter, using ballpoint pen (blue or black in colour) mark the bubble corresponding to the most appropriate answer. For example if the answer to question 2 is C , bubble C has to be darkened as shown below :

(c) Mark only one bubble for each question. The bubble should be filled completely and must be dark.
(d) Here are some wrong methods of marking answers, such as
Use of Tick-mark
Use of Cross-mark
Use of Dot

In all these cases mentioned above, though the candidate may have given the correct answer, it will not be read by the scanner because of the wrong method of marking the answer.
(e) The bubble should be filled completely. Candidates are advised not to make any special effort to mark bubbles artistically.
(f) Warning : Pen marking once made will be final.
(g) Any attempt to erase the pen mark once made will leave smudges or marks on the bubble, which will treat it as a valid mark.
(h) Any fresh mark made after attempting erasure of an already marked bubble will lead to multiple marks with the consequent penalty of negative marks.
10.4.4 Candidates will get the copy of the OMR sheet after the completion of the examination. The copy which is attached to the Main OMR sheet will be detached by the Invigilator in the presence of the candidate after the completion of the examination. The candidates will be permitted to carry this copy with them after the examination.
10.5 The question booklet for each paper will be supplied to the candidate only five minutes before the actual time prescribed for the commencement of the examinations. The candidates should take care to mark the necessary entries, in the question booklet as well as on the OMR answer sheet immediately before beginning to answer the questions.
10.6 Immediately after the commencement of the examination, the candidate should check that the question booklet supplied is of the correct version and that it contains all the 120 questions in serial order. The question booklet should not have unprinted or torn or missing pages in it. If the question booklet does not agree with the above, the matter should be brought to the immediate attention of the invigilator. In such cases the invigilator should take immediate action to rectify the same by issuing the candidate a question booklet of the same version. The question booklet initially issued will be taken back only after the replacement is made.
10.7 Candidates are warned that they should enter only the necessary information as required in the OMR answer sheet (on the left part). Any additional information, which is not required and which may help to identify the candidate (made in any part of the OMR sheet), will disqualify the candidate and his/ her candidature will be cancelled without any further intimation. Further he/ she will be debarred from appearing for the Entrance Examinations for a period not exceeding two years.
10.8 Any mistake in filling up the data part of the OMR sheet or in marking the answers will affect the valuation of the script adversely.
10.9 WARNING : Any malpractice, or, attempt to commit any kind of malpractice, in the Examination, will result in the disqualification of the candidate.

## 11. CENTRALISED ALLOTMENT PROCESS (CAP) \& ONLINE SUBMISSION OF OPTIONS

The Centralised Allotment Process will be done through the Single Window System (SWS) of Allotment to give allotments to the various courses and colleges under the Engineering/ Medical/ Architecture streams in the state, based on the options submitted by the candidates who have been included in the rank list of the Engineering/ Medical/ Ayurveda/ Architecture courses of KEAM 2009, conducted by the Commissioner for Entrance Examinations (CEE), Kerala. This is a system of 'Allotments through Online

Submission of Options'. It is a simple and transparent process of allotment to the Professional degree courses and it gives the candidate opportunity to exercise his/ her options for courses and colleges of his/ her choice conveniently in the order of his/ her preference considering all those available to be chosen from. The allotments will be strictly based on the options exercised, the rank obtained in the Entrance Examinations and eligible reservations of the candidate. Candidates should register options only to those courses/colleges which they are sure to join on allotment. If the candidate fails to remit fee/join the college, he/she will not be eligible for any further allotment in any stream.
11.1 The Single Window System of Admissions 2009 will be done by the Commissioner for Entrance Examinations (CEE), Kerala, with the technical support of the National Informatics Centre (NIC).
11.2 Seats in Government/Aided/KAU/ Self Financing Colleges to be allotted by the Commissioner for Entrance Examinations, will be included in the SWS and will be done as per the provisions of allotment.
11.3 Seats for the Engineering, Architecture, Medical, Dental, Ayurveda, Homoeo, Siddha, courses and seats for the Engineering, Agriculture, Forestry, Fisheries, Veterinary courses in the Agricultural and Allied Courses under the Kerala Agricultural University will be available for allotments by CEE through the SWS.
11.4 Rules and regulations governing allotments through submission of options:
11.4.1 Candidate to register options : Candidates included in the Engineering, Medical and Ayurveda Rank lists 2009, published based on the marks secured in the Entrance examination conducted for the streams concerned and candidates included in the Architecture Rank list 2009, published based on the marks obtained in the Qualifying examination and the National Aptitude Test in Architecture, will have to register their options in the stream(s) concerned as prescribed under Clause 11.5 below, for being considered for allotments in the stream(s).
11.4.2 Registering Options : Options can be registered only through the website, "www.cee.kerala.gov.in/ keam". Candidates will have to register their options in a stream or different streams (based on their eligibility), in the 'Home Page' of the candidate through the website within the stipulated period of time. Candidates can access this website and follow the instructions given therein and as described in Clause 11.5 below, to register their options for courses and colleges. Options submitted to the CEE by Fax, Post, Hand delivery etc., will not be processed or considered on any account for allotment of seats.
11.4.3 Facility for Registering Options: Candidates can register their options within the time schedule specified. Candidates can register their options from any computer having internet facility. Candidates who do not have access to Internet facility can use the facility provided free of cost, by the Government at various centres across the state. 'Option Facilitation Centres' (OFC) and 'Help Desks' (HD) will be opened across the state during a specified period for the candidates who need assistance for registering their options. The list of OFCs and HDs will be notified in due course. The OFC and HD will be functioning only during the period specified.
11.4.4 Time schedule for registering options : The facility for registering of options will be available only during the period specified in the notifications to be issued by the CEE. Wide publicity will be given through electronic and print media regarding the schedule and related matters. The facility will be withdrawn once the time period is over and candidate will not have access to this facility after this time period. A candidate, not registering his/her options as per the time schedule announced, will not be considered for allotments under his/her eligible streams against any of the seats available then, irrespective of his/her rank. No extension of time will be granted under any circumstances for registering options under any of the streams.
11.4.5 Registering of options in respect of candidates included in different Rank Lists (Medical/ Ayurveda/ Engineering/ Architecture) : A candidate included in different rank lists, can register options like a candidate included in a single stream. All options available to the candidate, based on the streams he/ she is eligible for, can be registered in a single registration. For example, a candidate included in the Engineering and Medical rank lists can register his/ her options in the two streams together, within the specified period of time.

There is no separate time schedule for registering options under each of the streams. All options to all eligible streams will have to be registered as per the time schedule. No extension of time will be granted under any circumstances for registering options under any of the streams.
11.4.6 Eligibility for registering options: Only those candidates included in the different Rank Lists published by the CEE for 2009 based on KEAM 2009 are eligible to register their options in the stream concerned. Moreover, the candidates registering their options should satisfy all the eligibility conditions with regard to Nativity (Clause 6.1), Academic qualifications (Clause 6.2), Age (Clause 6.3), etc., of the Prospectus for admission to Professional Degree Courses, 2009. Academic eligibility should be satisfied on the date of admission. Principal/ Head of the Institution will be personally responsible for verification of eligibility condition as prescribed in the Prospectus, when the candidate reports for admission. Only those candidates who are found to be qualified as prescribed shall be admitted to the college/ institution irrespective of the fact that he/ she has an allotment through the SWS.
11.4.7 Essentials for registering options: Candidates should have particulars such as Roll Number, Application Number and Key Number of KEAM 2009 assigned to them in order to register their options in the website.
Note: A candidate who has lost the Admit Card may get a 'Duplicate Admit Card' from the Office of the CEE before closing of the time slot fixed for registering options by submitting a request addressed to the CEE along with a Demand Draft for Rs. 100/-, drawn on a nationalised bank, in favour of the "Commissioner for Entrance Examinations, payable at Thiruvananthapuram". This facility will be available at the 'Option Facilitation Centres' also during the option registration period. However, the facility will not be available at the 'Help Desks'.

### 11.5 Procedure for Registering Options:

Any candidate, who wishes to register his/ her options, should have the 'Roll Number', 'Application number' and 'Key number' readily available with him/her. The candidate must also have access to internet facility. The candidate should follow the procedure given below for registering options:
(i) Accessing the website.
(ii) Logging on to the candidate's Home page.
(iii) Setting of a Password.
(iv) Registering of Options.
(v) Saving the Options registered.
(vi) Viewing and Printing of the List of Options registered.
(vii) Logging off from the Home Page.
11.5.1 Accessing the website: The candidate can access the website, 'www.cee.kerala.gov.in/ keam' from any computer having internet facility. The platform can be Windows-based or Linux-based and any browser will be sufficient.
11.5.2 Logging on to the Candidate's Home page : The candidate can log on to his/ her home page by entering the details (i.e., Roll number, Application number and Key number) correctly.
(i) The Roll number of the candidate is the six-digit Number allotted to the candidate for appearing for the Entrance Examination for Admission to Professional Degree Courses, 2009.
(ii) Application number of the candidate: This is the seven-digit number printed on the right top part of the facing sheet of the Application submitted by the candidate for KEAM 2009. This is also printed in the OMR data sheet submitted by the candidate for KEAM 2009 and in the Admit Card issued by the CEE to the candidate.
(iii) Key Number : Key number will be provided to all successful candidates in the KEAM 2009, along with the mark/ data sheet. The portion of the data sheet containing the Key number should be detached and kept under the safe custody of the candidate. The Key number should not be disclosed to others who may misuse this, for which the CEE/ Government will not be responsible. (All these numbers are candidate specific and hence are available only to the candidate).

If the system finds that the one who has requested for 'login' is the genuine candidate, the candidate will be directed to his/ her 'Home page'. If any discrepancy is observed by the system on these numbers, the candidate will not be permitted to proceed further in which case the candidate may recheck the entries made or contact the Option Fecilitation Centres/ Office of the Commissioner for Entrance Examinations for further instructions.
11.5.3 Setting of a Password : At first the candidate may enter his/ her Roll Number in the box provided. Then click the 'Submit' button. The candidate is led to the second webpage, wherein he/ she has to enter the Application Number, Key Number and set a password in the boxes provided. The candidate has to re-enter the password for confirmation. This is mandatory for all candidates. If a candidate does not set a password, he/ she will not be able to register options. Any letter/ number/ symbol or combination of these may be used for fixing the password. Maximum number of characters permitted is 15. [Examples: (a)ANDREWS (b)SanTHydELhi (c)milan123 (d)XYZ89E4U (e)we5782surya235, etc]. Any password entered will have to be remembered by the candidate. Remembering the Password is the responsibility of the candidate. The Password set by the candidate should not be revealed to others who may misuse them. This may result in tampering of the options made by the candidate. The CEE/ Government will not be responsible for any such eventuality.
If a candidate forgets his/her password, the candidate will be denied access to his/ her Home Page in future when he/ she tries to access his/ her Home Page. In such cases, the candidate will have to contact an 'Option Facilitation Centre' or the office of the CEE in person for resetting the password.
11.5.4 Courses and Colleges available for registering options : A list of Courses (Course List) and Colleges (College List) for allotments through the SWS will be available in the Home page of the candidate based on the stream(s) the candidate is eligible for. The 'Course List' link when clicked will show all the courses in the stream concerned with their two letter codes. For example, a candidate included only in the Engineering stream will see the list of Engineering courses and their codes (Eg:- AE - Applied Electronics and Instrumentation, EC Electronics and Communication Engineering, etc.). Similarly, a candidate in the Medical Rank list only, will see the list of medical courses with their two letter codes (Eg:- MM-MBBS, MD-BDS, BA-BAMS, etc.). A candidate included in Engineering and Medical Rank Lists will see a list of Engineering and Medical courses and their two-letter codes. The 'College List' link when clicked will show all the Colleges under the stream(s) applicable to the candidate and their three-letter codes. (Eg:- TVE-College of Engineering, Thiruvananthapuram, TVMGovernment Medical College, Thiruvananthapuram, etc.) A candidate may examine this list further to see the number of seats for each category in these colleges by clicking on the College Code. An overall idea of the Courses and Colleges and their Codes will help the candidate to register his/ her options without any difficulty.
11.5.5 Procedure for registering options in his/her Home Page : By entering the option number for a course-college combination the candidate can fix his/ her preference numbers for the course-college combinations displayed in the Home Page. Here all the eligible options of the candidate will be displayed course-wise and the candidate is expected to enter his/her preference number for a particular combination.
11.5.6 Registering of the Options and saving/revising the Options registered:
(i) All eligible options of the candidate will be displayed on the Home Page. The candidate may follow the directions given therein to register the options. The data entered may be saved regularly by clicking the 'save' button, so that the data already entered is not lost due to unexpected reasons. The candidate should enter only those options in which he/ she is interested. Candidates should also note that he/ she will be considered for allotment only to those courses and colleges opted by him/her. So, a candidate who has not opted for a course-college combination will not be considered for allotment for that combination. Existing options, registered by the candidate and available in the Home Page, can be cancelled by entering the number '0' against that particular option to be cancelled and by clicking the 'update' button. All options registered by the candidate will be processed. If a candidate gets allotted to a particular seat, based on his/her option, he/ she is bound to accept it, failing which, he/ she will lose that allotment as well as his/her claims for any seat in any stream. Such candidates will not be eligible for any further allotment in any stream.
(ii) Option Work Sheet facility: If a candidate experiences any difficulty in entering the data directly, he/ she may first take a printout of the work sheet showing all the options he/ she is eligible for, by clicking on the 'OPTION WORKSHEET' or 'DETAILED OPTION WORKSHEET' link on the page. The desired entries may be made on this work sheet and the same may be used for registering the options in the website. The preference numbers may be fixed using this work sheet and the data may be entered in the system subsequently. A candidate has the facility to modify or rearrange his/ her earlier options before the last date and time fixed.
11.5.7 Viewing and Printing of the Option List based on the options registered: Once the candidate completes the option entry, he/she can view his/her options by clicking on the link provided. An option list will be generated and the candidate can take a printout of the same and keep it for future reference. If the candidate wants to change his/ her options already registered, he/ she may revise the options as desired and ensure that the option list has come as per his/ her preferences.
11.5.8 Logging off from the Home page : Once the candidate is satisfied with the options registered, he/ she may 'Log off' the system by clicking on "logout" link. The process of 'Registration of Options' is complete when the candidate logs off. This action is compulsory for preventing the misuse of his/her Home Page by strangers.
11.5.9 Rearranging option priority : A candidate may change his/ her option priority any number of times within the time schedule permitted. The priority of options registered at the time of closing of the facility for registering options alone will be considered for processing.
11.5.10 Trial Allotments : The CEE will conduct Trial Allotments as many times as possible before the closure of the time fixed for registering options to give an idea about the chances of getting allotment to a course and college based on options and rank of the candidate. The trial Allotment does not guarantee that the candidate will get allotment in a college or course.
11.6 Processing of Options and Allotment :
11.6.1 First Allotment : After the period earmarked for registering options, they will be processed and the first allotment for all courses will be published in the website, "www.cee.kerala.gov.in", on the date notified by the CEE. The allotment will show the college to which the candidate is allotted and the fee to be remitted for the course allotted.
11.6.2 Remitting of Fees: The prescribed fee for the Course will have to be remitted by the candidate to the CEE Account in specified branches of State Bank of Travancore to be notified by the CEE, as per the time schedule prescribed. After the candidate remits the fee, a fee receipt will be issued by the bank as token of allotment and remittance of fee. Those candidates who do not remit the fee on or before the date prescribed for the same will lose their allotment as well as the eligibility for further allotments in all streams.
11.6.3 Admission for MBBS/BDS courses : Candidates allotted to the MBBS/ BDS courses, and who remit the fee as prescribed, should take admission in the college allotted as per the schedule notified by the CEE. Candidates who do not take admission will lose their allotment as well as the claims in all streams. All other candidates allotted to courses other than MBBS/ BDS will not have the facility to join the colleges based on the first allotment, but they should remit the fee on the dates specified.
11.6.4 Cancellation of options/alteration of priority of options after the first allotment : Candidates who remit the fee as per the first allotment within the prescribed time limit will have the facility to cancel / alter the priority of their higher order options in the list of options registered by them before the next allotment. This facility will be activated in the 'Home Page' of the candidates on the dates notified.
11.6.4(i) After the first allotment, the options below the 'allotted one' of the candidate will automatically be removed from the option list of the candidate. For example, if a candidate had registered 45 options in all, and if he/ she is allotted his/ her $34^{\text {th }}$ option, all options from 35 to 45 will be removed from the option list. Options from 1 to 33 will remain valid and will be considered for future allotments.
11.6.4(ii) If a candidate is satisfied with the first allotment and does not want to be considered against his remaining options, he/ she will have the facility to cancel all the remaining options. He/she may cancel options in a particular stream alone. He/ she may also cancel specific options among the remaining options as per his/ her desire. The candidate will also
have the facility to alter the priority of the remaining options. But the candidate will not be permitted to register any fresh options to the existing ones.
11.6.4(iii) The facility for cancellation/ deletion/alteration will be available as notified, after which the facility will be withdrawn. A candidate retaining all or any of the options after the first allotment is bound to accept the next allotment, if any, given to him/her, failing which, he/ she will lose the allotment given and will not be considered for any further allotments under any stream.
11.6.5 Second allotment and Remittance of Fee: The second allotment will be published on the date specified. Candidates who have not received any allotment in the first allotment and who have received an allotment in the second allotment will have to remit the prescribed fee for the course allotted as specified in Clause 11.6.2. If a candidate has a different allotment than the one received in the first allotment, the fee for which is higher than that remitted as per the first allotment, he/ she will have to remit the difference in fee as prescribed in Clause 11.6.2. The amount to be remitted in this manner will be shown in the allotment details of the candidate. If the fee for the course allotted in the second allotment is less than or same as the fee remitted as per the first allotment, no further remittance is to be made by the candidate. The date of reporting to the college concerned for taking admission will be notified. After the second allotment, the options below the newly 'allotted one' of the candidate will automatically be removed from the option list of the candidate.
Details regarding further allotments will be notified by the Commissioner for Entrance Examinations.
11.6. 6 Last Rank Details : The last rank details of the allotment will be published after each allotment and will be made available in the website. The last rank given will be the general rank of the candidate.
11.6.7 Other Rules related to registering of Options :
(i) Candidate can register all the available options if he/she desires so. However, it is not compulsory that the candidates should exercise all the options.
(ii) A candidate will not be allotted a seat, not opted by him/ her.
(iii) A candidate is bound to accept an allotment as per the priority registered in the Option list and he/ she has to surrender the seat already occupied by him/her, if he/ she is allotted based on options furnished against arising/future vacancy. Request to retain the existing admission after an allotment is made, based on the option registered, will not be considered under any circumstances.
(iv) Failure to report for admission in the allotted institution, after remitting the required fee within the stipulated time, on the specified date will result in the forfeiture of his/her allotment to that course and for any course in any stream. He/ she will not be considered for allotment to any future/ arising vacancies in any stream.
11.6.8 Allotments as per guidelines:
(i) As per the guidelines of the Medical Council of India and Dental Council of India, no student shall be admitted to Medical/ Dental colleges after September $30^{\text {th }}$ of each year. Hence no allotments for 2009-10 will be made to the MBBS/ BDS courses after 30.09.2009.
(ii) As per the guidelines of Central Council of Indian Medicine, allotments to BAMS, BSMS courses for 2009-10, will not be made after 31.10.2009. Similarly, no allotments to the BHMS course for 2009-10 will be made after 31.10.2009, as per the guidelines of Central Council of Homoeopathy.
11.7 Post Allotment Activities:
11.7.1 Reporting at the College : Candidates who get allotment will have to report before the Principal/ Head of the Institution concerned for admission on the dates notified with the following documents :
(a) Admit Card of the Entrance Examination, 2009.
(b) Certificate to prove date of birth.
(c) Transfer Certificate from the Institution last attended and Conduct Certificate.
(d) Original mark list of the qualifying examination (Higher Secondary or equivalent) and the Pass certificate of the qualifying examination (if issued).
(e) Eligibility certificate from any University in Kerala, in case of candidates who have passed a qualifying examination other than Higher Secondary Examination/Vocational Higher Secondary Examination conducted by Government of Kerala or the examination conducted by CBSE/ ICSE and ISC.
(f) Migration Certificate, if applicable.
(g) Physical Fitness Certificate in the relevant format given in Annexure XVII (a) or XVII (b) of the Prospectus, 2009.
(h) Receipt of fee remitted in the Bank.
(i) Any other documents required by the Head of Institution.

The 'Admission fee' as applicable to the course will have to be remitted by the candidate at the time of taking admission in the college. This amount is not refundable.

## The candidate is specifically instructed not to inform his/her key number and Password to the institutions concerned.

11.7.2 Verification of Documents : The Principal/Head of the College or Institution shall be personally responsible for verification and satisfaction of the correctness of the records produced by the candidate at the time of seeking admission in the college/institution. The University concerned shall also verify the records produced by the candidate who got admission in the college/ institution by deputing special teams and submit a report to Government within 10 days from the last date fixed for final allotment of seats.
11.7.3 Failure to report for Admission : Candidates who do not take admission on the prescribed date will lose their admission. They will not be considered for any further allotments under any stream.
11.7.4 Cancellation of Higher Options after joining a College : Candidates who join the college on the dates specified can cancel their remaining options fully or partially or change the priority of their remaining options before the dates prescribed and as specified in clause 11.6.4. A candidate not interested in any further allotments, may cancel all his/ her options before the specified date failing which, the options will remain live and will be considered for further allotments.
11.7.5 Future allotments : Allotments after the first allotment will be made as per a schedule, which will be announced well in advance. The procedure to be followed for remittance of fee as well as the cancellation of options will be as described earlier.
11.8 Seat allotment protocol in Government/ Aided/ KAU Colleges :
11.8.1 Admission \& Allotment : A distinction will be made between 'Admission' to a course and seat 'Allotment' to a college. Admissions will be first offered under State Merit (SM) even to candidates having eligible reservation benefits as per mandatory reservation, so long as vacancies are available under the same, statewide. Only after all the 'State Merit' vacancies are exhausted across the State, seats will be offered under the candidate's eligible reservation quotas under mandatory reservation.
11.8.2 State-wide Principle of Allotment in Government/ Aided/ KAU Colleges:

Admission/allotment of seats in Government/ Aided/ KAU Colleges is governed by a 'statewide' principle of selection approved by the Government of Kerala in G.O.(MS) No.122/98/ H.Edn. dated 07.10.1998. According to the G.O., 'Candidates of the reserved category who will otherwise come in the open merit list will be allotted to the college of his choice provided he would have been eligible for allotment to that college if he was treated as candidate coming under reservation quota. While a reserved category candidate entitled to admission on the basis of his merit will have the option of taking admission to the colleges where a specified number of seats have been kept reserved for reserved category but while computing the percentage of reservation he will be deemed to have been admitted as an open category candidate and not as a reserved category candidate'. As per the above principle, all seats available for allotment by CEE in Government/ Aided/KAU Colleges for a particular course/ branch (Eg:- MBBS under Medical stream or Electronics \& Communication under Engineering stream) available in all the Government and Aided colleges put together will be computed state-wide and the total seats so obtained for each course in these

Colleges together, will be distributed statewide for the different categories by applying the mandatory reservation principle as mentioned in clause 4.1.5. While following the above principle of allotment, the institution-wise break-up of seats that is earmarked under each category as per the mandatory reservation principle will be changed in certain colleges.
11.8.3 Allotment in Government/Aided/KAU Colleges to Candidates with multiple Claims under Mandatory Quota: All candidates included in the Rank Lists are eligible for allotment under State Merit (SM). Candidates might be entitled for other reservation quotas also under Mandatory Reservation. For example, a candidate may have the benefit of SEBC reservation (EZ/ MU/ BH/ LC/ BX/ KU) or Scheduled Caste (SC) or Scheduled Tribe (ST) claim. The seats will be offered on the hierarchy of quotas.
The hierarchy in order is as follows:
(i) State Merit (SM) - All candidates included in the Rank Lists are eligible for allotment under State Merit. (ii) Communal Reservation (SEBC/ SC/ ST).
A candidate without SEBC/SC/ST reservation benefit will be considered only against the 'State Merit' seats wherever available at the time of allotment. Such candidates will be allotted a seat as per the availability of seats.
11.8.4 Allotments under Special Reservations : Candidates may be eligible for Special Reservations and/ or reservation benefits under 'Persons with Disabilities'. Such allotment will be only to the colleges where the seats have been identified. Allotment under these categories will not be governed by the provisions of the GO referred to in clause 11.8.2. The allotment of seats under Special reservation will be taken up along with the General Allotment. However such candidates will also be considered for allotments as per the Clauses 11.8. 2 and 11.8.3, if they are eligible for SEBC/ SC/ ST reservation benefits.
11.9 Seat allotment protocol in Self-financing Colleges : Allotment of seats in Self-financing colleges will be college/ institution wise. Details will be notified separately.
11.10 In case, candidates are directed to appear for a personal counseling at any stage of allotment process and a candidate is not able to attend the allotment process on genuine grounds, the parent/ guardian or any authorized person can act as a proxy at the risk of the candidate, on production of authorization letter in the form given in Annexure XIX. Authorization letter once received will be considered valid for the entire allotment process, unless the candidate revokes it in writing.
12. FEES
12.1 Fees for the various courses in Govt./ Aided Colleges will be as fixed by the Government, from time to time. Fees for the various courses in Self-financing Institutions will be notified separately. The details of fee structure for the various courses will be published before the commencement of the CAP 2009.
12.1.1 Candidates belonging to SC/ ST communities allotted against merit seats or against the seats reserved for them are exempted from payment of fees. Candidates belonging to OEC admitted against merit seats or against the un-availed seats of SC/ ST are exempted from payment of fee (As per G.O.(MS) No.14/ 2005/SCSTDD dated 5.4.2005 \& G.O.(Ms) No. 36/ 07/ SCSTDD dated 03.07.2007). Candidates belonging to OEC admitted to Government seats through SEBC reservation are also exempted from payment of fee (As per G.O.(Ms) No. 50/ 2006/ SCSTDD dated 22.09. 2006).
12.1.1(a) Claim for fee concession to OEC candidates: Candidates belonging to Other Eligible Communities (OEC) are exempted from payment of fee at the time of allotment to professional Degree Courses under Government/ Community quota irrespective of annual family income as per G.O. (MS) No. 36/07/ SCSTDD, dated: 03.07.2007. They should provide Community certificate from the Village Officer in the Application Form, in order to avail this benefit.
12.1.2 SC/ ST/ OEC candidates will have to pay the 'Caution Deposit' as per rules.
12.1.3 Candidates who are children of Inter-Caste married couple of which one is SC/ ST, will be eligible for educational and monetary benefits admissible to SC/ST as per GO (MS) No. 25/ 2005/ SCSTDD dated 20.6.2005 if they have submitted the 'Inter-Caste Marriage Certificate' issued by Revenue officials along with the application and the claim is accepted.

### 12.2 Payment of Fees:

12.2.1 The fee for a course allotted to the candidate will have to be paid within the stipulated time, at specified branches of the Bank notified. If a candidate moves to another course, the fee for which is higher than the fees applicable for the course allotted earlier, the balance fee will have to be remitted. Candidates getting fresh allotment also will have to remit the fees applicable. The fee so collected from the candidates will be transferred to the college where the candidate stands admitted at the closing of admissions for the year.
12.2.2 Refund of fees: Candidates who submit their requests for cancellation of admission should do so in the format available in the website, 'www.cee-kerala.org' before dates announced by the CEE through notifications from time to time. Such candidates are eligible for refund of fees. Refund of fees will be applicable only to students who leave the college on cancellation of admission on or before the last date prescribed. Excess fees if any collected from candidates will be refunded. The amount of fee/ excess fee collected will be refunded to the candidates only after the closing of admission for the year. No interest will be paid to the candidates.
12.2.3 No refund of fees:
(i) No refund of fees will be made to candidates who apply for Transfer Certificate/ Cancellation of admission under any circumstances, after the last date of cancellation of admission notified by the CEE. They will have to pay Liquidated damages as stipulated in Clause 12.2.4 below.
(ii) The candidate who does not take admission in the last phase of allotment will not be eligible for refund of fee.
12.2.4 (a)Levying amount towards liquidated damages from candidates discontinuing their studies:
(i) If any candidate admitted against 'Government' seats in Government/ Aided/ Self-financing Colleges, discontinues the studies after the closing of admissions in the same academic year, to join other courses or for other purposes, he/ she is liable to pay a liquidated damages of Rs. $1,50,000$ - (Rupees one lakh fifty thousand only) for MBBS, BDS courses and Rs. 75,000/(Rupees seventy five thousand only) for other courses. The liquidated damages for those candidates discontinuing courses in Government Engineering Colleges will be Rs. 50,000/(Rupees fifty thousand only). In all such cases the Transfer Certificate will be issued only after remitting the liquidated damages to the authority concerned. Candidates belonging to SC/ ST/ OEC are exempted from this rule. Candidates belonging to 'Keralite' category, as per Clause 6.1 (i), whose annual family income is below Rs. 75,000 - and who have submitted Income Certificate along with the application for admission to Professional Degree courses, 2009 will also be exempted from payment of Liquidated damages. Candidates who are transferred from one institution to another as per proceedings of the University concerned are exempted from payment of liquidated damages.
In the case of Private Self financing Engineering Colleges, the date of closing of admission and levying of liquidated damages from the candidates discontinuing studies will be notified separately.
(ii) The candidates admitted against Management seats in Self financing colleges under Govt. control, on discontinuance of course after the closing of admissions in the same academic year, are liable to pay liquidated damages of Rs.1,50,000/- for MBBS, BDS courses and Rs.75,000/- for other Medical/Engineering courses, irrespective of annual family income/ nativity/ reservation status.
(b) On discontinuance of a course after the first academic year liquidated damages shall be collected in the following manner :
(i) For Government seats in Government/ Aided Colleges, liquidated damages shall be levied as in clause 12.2.4 (a) (i) above.
(ii) For Government seats in Private Self-financing/ Government controlled self-financing colleges, liquidated damages shall be levied either as in clause 12.2.4 (a) (i) above or fees for remaining years, whichever is higher.
(iii) For Management seats in Government controlled self-financing colleges, fee for the remaining years of study will be levied as liquidated damages.
12.2.5 Refund of Excess amount collected as fee : The fees collected from candidates will be transferred to the college where the candidate stands admitted on closing of admissions. In
case the candidate has moved to a course, the fee for which is lesser than the amount remitted by him/ her at the time of the earlier allotment, the excess fee collected will be refunded to the candidate after closing of admissions. The candidates need not submit any individual request in this regard. No interest will be paid to the candidate on the balance amount due to him/ her.
13. COURSES, INSTITUTIONS - SPECIAL FEATURES
13.1 Medical Courses under the DME :
(a) The selected candidate should report before the Principal concerned on the date and time as directed by the CEE. No extension of time for joining the course will be granted under any circumstances. Failure to appear before the Principal concerned for admission on the date and time fixed will forfeit his/ her selection to the course.
(b) All students getting selected should get themselves vaccinated against Hepatitis, MMR and Chicken pox, before admission. A certificate to this effect will have to be produced at the time of admission.
(c) Students who successfully complete the MBBS course from Medical Colleges in the state, on completion of the MBBS Course, are liable to serve in rural areas. The provisions relating to this stipulation will be as given in appropriate Government orders issued from time to time.
13.2 Ayurvedacharya - BAMS Course
(a) Degree will be awarded only on production of certificate of having successfully completed the prescribed one year internship.
(b) Medium of instruction will be English.
13.3 Other conditions for the courses under the Kerala Agricultural University.
(a) Discontinuance and attendance: The students will not be allowed to discontinue the course of studies temporarily during the first two semesters. If a student admitted to the first year Under Graduate course does not register for the courses of first semester of that year or having registered, secures less than $80 \%$ attendance in 3 or more courses, his/ her name shall be removed from the roll.
(b) The medium of instruction for the above Degree courses will be English.
(c) All the above courses involve practical fieldwork needing considerable physical exertion. The candidates who would not be able to do such physical work need not apply.
(d) The following minimum physical standards are prescribed for BSc. Hons. (Forestry) course.

| Gender | Height <br> (cm) | Chest girth (cm) |  |
| :---: | :---: | :---: | :---: |
|  |  | Normal | Expanded |
| Male | 163 | 79 | 84 |
| Female | 150 | 74 | 79 |

(e) Candidates selected and sponsored by ICAR and children of persons of Kerala origin settled in Andaman Nicobar Island and Lakshadweep need not produce the nativity certificate for admission to the respective seats reserved for them.
(f) In the case of in-service candidates, as mentioned in clause 5, certificate showing the period of service from the head of office in which they are working should be produced.
(g) Certificates regarding the physical standards/fitness prescribed may be obtained from a Medical Officer in service not below the rank of an Assistant Surgeon in the concerned specimen form as given in Annexure XVII (a)/ XVII (b) as applicable.
(h) The physical standards in respect of candidates who have been allotted for BSC. Hons. (Forestry) course will be finally checked by the Kerala Agricultural University before admitting them to the above course.

### 13.4 Engineering Courses:

Those candidates who have been allotted to various Engineering courses in the State should produce a Physical Fitness Certificate in the Proforma given in Annexure XVII (b) at the time of admission.
Candidates allotted to engineering courses will have to get vaccinated against Hepatitis-B, before they take admission in the allotted college, as per AICTE guidelines.
Note: $\quad$ AICTE, New Delhi, as per order No. 37-03/ Legal/ 2007 dated 09.04.2007 has issued guidelines for "Tuition Fee Waiver Scheme for women, economically backward and physically handicapped meritorious students". The implementation of the scheme for Engineering course will be subject to the orders issued by Government of Kerala from time to time.
14. Other items
14.1 The Commissioner for Entrance Examinations will not entertain any request for change of the date of Entrance Examinations or Centralised Allotment Process or enquiries with regard to the date of declaration of the results.
14.2 All disputes pertaining to the Examination, selection or admission shall fall within the jurisdiction of the Hon'ble High Court of Kerala.
14.3 Any other items not specifically covered in this prospectus will be decided by the CEE and his decision shall be final.

Thiruvananthapuram
Date: 08.01.2009

Sd/-
Commissioner for Entrance Examinations

## ANNEXURE I <br> SYLLABUS FOR THE ENTRANCE EXAMNATIONS, 2009

(See Clause 9.5.1)

## MATHEMATICS

UNIT I: ALGEBRA
Sets, Relations and Functions
Sets and their Representations: Finite and Infinite sets; Empty set; Equal sets; Subsets; Power set; Universal set; Venn Diagrams; Complement of a set; Operations on Sets (Union, Intersection and Difference of Set); Applications of sets: Ordered Pairs, Cartesian Product of Two sets; Relations: Domain, Co-domain and Range: Functions: into, on to, one - one in to, one-one on to Functions; Constant Function; Identity Function; composition of Functions; Invertible Functions; Binary Operations.
Complex Numbers
Complex Numbers in the form $a+i b$; Real and Imaginary Parts of a complex Number; Complex Conjugate, Argand Diagram, Representation of Complex Number as a point in the plane; Modulus and Argument of a Complex Number; Algebra of Complex Numbers; Triangle Inequality; $\left|Z_{1}+Z_{2}\right| \leq\left|Z_{1}\right|+\left|Z_{2}\right| ;\left|Z_{1} \cdot Z_{2}\right|=\left|Z_{1}\right|\left|Z_{2}\right| ;$ Polar Representation of a Complex Number; Square Root of a Complex Number; Cube Roots of Unity. Quadratic Equations
Solution of a Quadratic Equation in the Complex Number System by (i) Factorization (ii) Using Formula; Relation between Roots and Coefficients; Nature of Roots; Formation of Quadratic Equations with given Roots; Symmetric Functions of Roots; Equations Reducible to Quadratic Forms.
Sequences and Series
Sequence and Examples of Finite and Infinite Sequences; Arithmetic Progression (A..P): First Term, Common Difference, $\mathrm{n}^{\text {th }}$ Term and sum of n terms of an A.P.; Arithmetic Mean (A.M); Insertion of Arithmetic Means between any Two given Numbers; Geometric Progression (G.P): first Term, Common Ratio and nth term, Sum to $n$ Terms and Sum of Infinite Numbers as Geometric series: Geometric Mean (G.M); Insertion of Geometric Means between any two given Numbers; Harmonic Progression (H.P); Harmonic Mean (H.M); Relationship among A.M., G.M., and H.M.; Arithmetico - Geometric Series: sum to n term and sum of Infinite Number of Terms of an Arithmetico Geometric Series; Series $\Sigma n, \Sigma n^{2}, \Sigma n^{3}$.
Logarithms, Exponential and Logarithmic Series
Meaning of logarithm of a number to a given base $a, a>0, a \neq 1$; Laws of Logarithms including change of Base; Common Logarithms (base 10); characteristic and Mantissa; Antilogarithms; Logarithmic tables; Simple Applications of Logarithms to Problems of Compound Interest; Growth and Decay (depreciation). Concept of ' e ' as the sum of an Infinite series; Proof of $2 \lll 3$; Exponential Function ( $\mathrm{e}^{\mathrm{x}}$ ) as the Infinite series $1+\frac{x}{1!}+\frac{x^{2}}{2!}+\ldots .$. , and its graph. Logarithmic function $\log _{e} x$ and its graph. The Infinite series of $\log _{e}(1+\mathrm{x}), \log _{e}(1-\mathrm{x}), \quad \log _{e}\left(\frac{1+\mathrm{x}}{1-\mathrm{x}}\right)$ and related problems.

Permutations, Combinations, Binomial Theorem and Mathematical Induction
Fundamental Principle of Counting; The Factorial Notation; Permutation as an Arrangement; Meaning of $P(n, r)$; Combination: Meaning of $C(n, r)$; Applications of Permutations and Combinations. Statement of Binomial Theorem; Proof of Binomial Theorem for positive integral Exponent using Principle of Mathematical Induction and also by combinatorial Method; General and Middle Terms in Binomial Expansions; Properties of Binomial Coefficients; Binomial Theorem for any Index (without proof); Application of Binomial Theorem. The Principle of Mathematical Induction, simple Applications
Matrices and Determinants
Concept of a Matrix; Types of Matrices; Equality of Matrices (only real entries may be considered): Operations of Addition, Scalar Multiplication and Multiplication of Matrices; Statement of Important Results on operations of Matrices and their Verifications by Numerical Problem only; Determinant of a Square Matrix; Minors and Cofactors; singular and non-singular Matrices; Applications of Determinants in (i) finding the Area of a Triangle (ii) solving a system of Linear Equations (Cramer's Rule); Transpose, Adjoint and Inverse of a Matrix; Consistency and Inconsistency of a system of Linear Equations; Solving

System of Linear Equations in Two or Three variables using Inverse of a Matrix (only up to 3X3 Determinants and Matrices should be considered).
Linear Inequations
Solutions of Linear Inequation in one variable and its Graphical Representation; solution of system of Linear Inequations in one variable; Graphical solutions of Linear inequations in two variables; solutions of system of Linear Inequations in two variables.
Mathematical Logic and Boolean Algebra
Statements; use of Venn Diagram in Logic; Negation Operation; Basic Logical Connectives and Compound Statements including their Negations; Truth Tables; Tautology; Duality; Algebra of Statements; Application of Logic in solving simple problems. Boolean Algebra as an Algebraic structure; Principle of Dualilty; Boolean function; conditional and Biconditional statements; Valid Arguments; Switching Circuits; Application of Boolean Algebra to switching circuits.

## UNIT II : TRIGONOMETRY

10. Trigonometric functions and Inverse Trigonometric functions

Degree measures and Radian measure of positive and negative angles; relation between degree measure and radian measure, definition of trigonometric functions with the help of a unit circle, periodic functions, concept of periodicity of trigonometric functions, value of trigonometric functions of $x$ for $x=$ $0, \pi / 6, \pi / 4, \pi / 3, \pi / 2, \pi, 3 \pi / 2,2 \pi$; trigonometric functions of sum and difference of numbers.

$$
\begin{aligned}
& \operatorname{Sin}(x \pm y)=\operatorname{Sin} x \operatorname{Cos} y \pm \operatorname{Cos} x \operatorname{Sin} y ; \operatorname{Cos}(x \pm y)=\operatorname{Cos} x \operatorname{Cos} y \mp \operatorname{Sin} x \operatorname{Sin} y ; \operatorname{Tan}(x \pm y)=\frac{\operatorname{Tan} x \pm \operatorname{Tan} y}{1 \mp \operatorname{Tan} x \operatorname{Tan} y} \\
& \operatorname{Sin}(2 \pi \pm x)= \pm \operatorname{Sin} x, \operatorname{Cos}(2 \pi \pm x)=\operatorname{Cos} x ; \operatorname{Cos}(-x)=\operatorname{Cos} x, \operatorname{Sin}(-x)=-\operatorname{Sin} x ; \operatorname{Cos}(\pi / 2 \pm x)= \pm \operatorname{Sin} x \\
& \quad \operatorname{Sin}(\pi / 2 \pm x)=\operatorname{Cos} x ; \operatorname{Cos}(\pi \pm x)=-\operatorname{Cos} x, \operatorname{Sin}(\pi \pm x)= \pm \operatorname{Sin} x
\end{aligned}
$$

Trigonometric functions of multiple and submultiples of numbers.
$\operatorname{Sin} 2 x=2 \operatorname{Sin} x \operatorname{Cos} x$;
$\operatorname{Sin} 3 x=3 \operatorname{Sin} x-4 \operatorname{Sin}^{3} x ; \operatorname{Cos} 2 x=\operatorname{Cos}^{2} x-\operatorname{Sin}^{2} x=1-2 \operatorname{Sin}^{2} x=2 \operatorname{Cos}^{2} x-1 ; \operatorname{Cos} 3 x=4 \operatorname{Cos}{ }^{3} x-3 \operatorname{Cos} x$
$\operatorname{Tan} 3 x=\frac{3 \operatorname{Tan} \mathrm{x}-\operatorname{Tan}^{3} \mathrm{x}}{1-3 \operatorname{Tan}^{2} \mathrm{x}} ; \operatorname{Sin} \mathrm{x}+\operatorname{Sin} \mathrm{y}=2 \operatorname{Sin}\left(\frac{\mathrm{x}+\mathrm{y}}{2}\right) \operatorname{Cos}\left(\frac{x-y}{2}\right) ; \operatorname{Cos} \mathrm{x}+\operatorname{Cos} \mathrm{y}=2 \operatorname{Cos}\left(\frac{\mathrm{x}+\mathrm{y}}{2}\right) \operatorname{Cos}\left(\frac{\mathrm{x}-\mathrm{y}}{2}\right)$
$\operatorname{Sin} \mathrm{x}-\operatorname{Sin} \mathrm{y}=2 \operatorname{Cos}\left(\frac{\mathrm{x}+\mathrm{y}}{2}\right) \operatorname{Sin}\left(\frac{\mathrm{x}-\mathrm{y}}{2}\right) ; \operatorname{Cos} \mathrm{x}-\operatorname{Cos} \mathrm{y}=-2 \operatorname{Sin}\left(\frac{\mathrm{x}+\mathrm{y}}{2}\right) \operatorname{Sin}\left(\frac{\mathrm{x}-\mathrm{y}}{2}\right)$
Conditional identities for the angles of a triangle, solution of trigonometric equations of the type $\sin x=$ $\operatorname{Sin} a ; \operatorname{Cos} x=\operatorname{Cos} a ; \operatorname{Tan} x=\operatorname{Tan} a$ and equations reducible to these forms.
Inverse Trigonometric functions:
(i) $\operatorname{Sin}^{-1}(\operatorname{Sin} x)=x$ and other similar formula (ii) $\operatorname{Sin}^{-1}(1 / x)=\operatorname{Cosec}^{-1} x$ and other similar formula.

$$
\begin{aligned}
& \operatorname{Sin}^{-1}(-x)=-\operatorname{Sin}^{-1} x, \operatorname{Tan}^{-1}(-x)=-\operatorname{Tan}^{-1} x ; \operatorname{Cosec}^{-1}(-x)=-\operatorname{Cosec}^{-1} x, \operatorname{Cos}^{-1}(-x)=\pi-\operatorname{Cos}^{-1}(x) ; \operatorname{Sec}^{-1}(-x)=\pi-\operatorname{Sec}^{-1}(x) \\
& \quad \operatorname{Cot}^{-1}(-x)=\pi-\operatorname{Cot}^{-1}(x) \\
& \operatorname{Sin}^{-1} x+\operatorname{Cos}^{-1} x=\pi / 2, \operatorname{Tan}^{-1} x+\operatorname{Cot}^{-1} x=\pi / 2 ; \operatorname{Cosec}^{-1}(x)+\operatorname{Sec}^{-1}(x)=\pi / 2 ; \operatorname{Tan}^{-1} x-\operatorname{Tan}^{-1} y=\operatorname{Tan}^{-1}\left(\frac{x-y}{1+x y}\right), x y>-1 \\
& \operatorname{Tan}^{-1} x+\operatorname{Tan}^{-1} y=\operatorname{Tan}^{-1}\left(\frac{x+y}{1-x y}\right) ; x y<1 ; 2 \operatorname{Tan}^{-1} x=\operatorname{Sin}^{-1}\left(\frac{2 x}{1+x^{2}}\right)=\operatorname{Cos}^{-1}\left(\frac{1-x^{2}}{1+x^{2}}\right)=\operatorname{Tan}^{-1}\left(\frac{2 x}{1-x^{2}}\right),|\mathrm{x}|<1
\end{aligned}
$$

Simple problems
Graph of the following trigonometric functions;
$y=\operatorname{Sin} x ; y=\operatorname{Cos} x ; y=\operatorname{Tan} x ; y=a \operatorname{Sin} x ; y=a \operatorname{Cos} x, y=a \operatorname{Sin} b x ; y=a \operatorname{Cos} b x ;$
11. Solutions of triangles

Proof and applications of the following formula.

$$
\begin{equation*}
\frac{a}{\operatorname{Sin} A}=\frac{b}{\operatorname{Sin} B}=\frac{c}{\operatorname{Sin} C} ; \text { (2) } \operatorname{Cos} \mathrm{A}=\frac{\mathrm{b}^{2}+c^{2}-a^{2}}{2 b c} \text { etc., (3) } \mathrm{a}=\mathrm{b} \operatorname{Cos} \mathrm{C}+\mathrm{c} \operatorname{Cos} \mathrm{~B} \text { etc., } \tag{1}
\end{equation*}
$$

$\operatorname{Sin} \frac{\mathrm{A}}{2}=\sqrt{\frac{(s-c)(s-b)}{b c}}$ etc., $\operatorname{Cos} \frac{\mathrm{A}}{2}=\sqrt{\frac{s(s-a)}{b c}} ; \Delta=\frac{1}{2} \mathrm{bc} \operatorname{Sin} \mathrm{A}$, etc.
Napier's analogy $\operatorname{Tan} \frac{\mathrm{B}-\mathrm{C}}{2}=\frac{b-c}{b+c} \operatorname{Cot} \mathrm{~A} / 2$
Problems on heights and distances.

## UNIT III: GEOMETRY

12. Cartesian System of Rectangular Co ordinates

Cartesian system of co ordinates in a plane, Distance formula, Centroid and incentre, Area of a triangle, condition for the collinearity of three points in a plane, Slope of line, parallel and perpendicular lines, intercepts of a line on the co ordinate axes, Locus and its equation.
13. Lines and Family of lines

Various forms of equations of a line parallel to axes, slope-intercept form, The Slope point form, Intercept form, Normal form, General form, Intersection of lines. Equation of bisectors of angle between two lines, Angles between two lines, condition for concurrency of three lines, Distance of a point from a line, Equations of family of lines through the intersection of too lines.

## 14. Circles and Family of circles

Standard form of the equation of a circle General form of the equation of a circle, its radius and center, Equation of the circle in the parametric form. Equation of circle when the end points of a diameter are given, Points of intersection of a line and circle with centric at origin. Condition for a line to be a tangent to the given circle. Equation of a tangent to a circle and length of the tangent.

## 15. Conic sections

Sections of a cone. Equations of conic sections [ Parabola, Ellipse and Hyperbola] in standard form.

## 16. Vectors

Vectors and scalars, Magnitude and Direction of a vector, Types of vectors (Equal vectors, unit vector, Zero vector). Position vector of a point, Localized and free vectors, parallel and collinear vectors, Negative of a vector, components of a vector, Addition of vectors, multiplication of a vector by a scalar, position vector of point dividing a line segment in a given ratio, Application of vectors in geometry. Scalar product of two vectors, projection of a vector on a line, vector product of two vectors Application of dot and cross product in (1) finding work done by a force (2) finding area of a triangle and a parallelogram (3) problems of plane geometry and trigonometry (4) Vector moment of a vector about a point, Scalar triple product and its applications. Moment of a vector about a line, Coplanarity of three vectors or four points using scalar triple product, Vector triple product.

## 17. Three Dimensional Geometry

Coordinate axes and coordinate planes in three dimensional space, coordinate of a point in space, distance between two points, section formula, direction cosines, and direction ratios of a line joining two points, projection of the join of two points on a given line, Angle between two lines whose direction ratios are given, Cartesian and vector equation of a line through (i) a point and parallel to a given vector (ii) through two points, Collinearity of three points, coplanar and skew lines, Shortest distance between two lines, Condition for the intersection of two lines, Carterian and vector equation of a plane (i) When the normal vector and the distance of the plane from the origin is given (ii) passing though a point and perpendicular to a given vector (iii) Passing through a point and parallel to two given lines through the intersection of two other planes (iv) containing two lines (v) passing through three points, Angle between (i) two lines (ii) two planes (iii) a line and a plane, Condition of coplanarity of two lines in vector and Cartesian form, length of perpendicular of a point from a plane by both vector and Cartesian methods, vector and Cartesian equation of a sphere, its center and radius diameter form of the equation of a sphere.

## UNIT IV: STATISTICS

## 18. Statistics and probability

Mean deviation for ungrouped data, variance for grouped an ungrouped data, standard deviation. Random experiments and sample space, Events as subset of a sample space, occurrence of an event, sure and impossible events, Exhaustive events, Algebra of events, Meaning of equality likely outcomes, mutually exclusive events. Probability of an event; Theorems on probability; Addition rule, Multiplication rule,

Independent experiments and events. Finding $P$ ( $A$ or $B$ ), $P$ ( $A$ and $B$ ), random variables, Probability distribution of a random variable.

## UNIT V : CALCULUS

## 19. Functions, Limits and continuity

Concept of a real function; its domain and range; Modulus Function, Greatest integer function: Signum functions; Trigonometric functions and inverse trigonometric functions and their graphs; composite functions, Inverse of a function.
Limit of a function; meaning and related notations; Left and right hand limits; Fundamental theorems on limits without proof $\lim _{x \rightarrow a} \frac{x^{n}-a^{n}}{x-a}=n a^{n-1}, a>0 ; \lim _{x \rightarrow 0} \frac{\operatorname{Sin} x}{x}=1 ; \lim _{x \rightarrow 0} \frac{e^{x}-1}{x}=1 \quad$ (without proof); $\lim _{x \rightarrow 0} \frac{\log (1+x)}{x}=1$

Limits at Infinity and infinity limits; continuity of a function at a point, over an open/ closed interval; Sum, Product and quotient of continuous functions; Continuity of special functions- Polynomial, Trigonometric, exponential, Logarithmic and Inverse trigonometric functions.

## 20. Differentiation

Derivative of a function; its geometrical and physical significance; Relationship between continuity and differentiability; Derivatives of polynomial, basic trigonometric, exponential, logarithmic and inverse trigonometric functions from first principles; derivatives of sum, difference, product and quotient of functions; derivatives of polynomial, trigonometric, exponential, logarithmic, inverse trigonometric and implicit functions; Logarithmic differentiation; derivatives of functions expressed in parametric form; chain rule and differentiation by substitution; Derivatives of Second order.

## 21. Application of Derivatives

Rate of change of quantities; Tangents and Normals; increasing and decreasing functions and sign of the derivatives; maxima and minima; Greatest and least values; Rolle's theorem and Mean value theorem; Approximation by differentials; Curve sketching of simple curves.
22. Indefinite Integrals

Integration as inverse of differentiation; properties of integrals; Integrals involving algebraic, trigonometric, exponential and logarithmic functions; Integration by substitution; Integration by parts; Integrals of the type:
$\int \frac{d x}{x^{2} \pm a^{2}}, \int \frac{d x}{a^{2}-x^{2}}, \int \frac{d x}{\sqrt{x^{2} \pm a^{2}}}, \int \frac{d x}{\sqrt{a^{2}-x^{2}}}, \int \frac{d x}{a x^{2}+b x+c}$,
$\int \frac{p x+q}{a x^{2}+b x+c} d x, \int \frac{d x}{\sqrt{a x^{2}+b x+c}}, \int \frac{p x+q}{\sqrt{a x^{2}+b x+c}} \mathrm{dx}$.
Integration of rational functions; Partial fractions and their use in integration; Integrals of the type
$\int \sqrt{x^{2} \pm a^{2}} d x, \int \sqrt{a^{2}-x^{2}} d x, \int \sqrt{\left(a x^{2}+b x+c\right)} d x, \int(p x+q) \sqrt{\left(a x^{2}+b x+c\right)} d x$,
$\int \frac{d x}{a+b \cos x}, \int \frac{d x}{a-b \sin x}, \int \sin ^{-1} x d x, \int \log x d x$.

## 23. Definite Integrals

Definite integral as limit of a sum; Fundamental theorems of integral calculus without proof); Evaluation of definite integrals by substitution and by using the following properties.

$$
\begin{aligned}
& \int_{a}^{b} f(x) d x=-\int_{b}^{a} f(x) d x ; \int_{a}^{b} f(x) d x=\int_{a}^{c} f(x) d x+\int_{c}^{b} f(x) d x \\
& \int_{a}^{b} f(x) d x=\int_{a}^{b} f(a+b-x) d x ; \int_{0}^{a} f(x) d x=\int_{0}^{a} f(a-x) d x
\end{aligned}
$$

$$
\begin{aligned}
& \int_{a}^{b} f(x) d x=\int_{a}^{b} f(a+b-x) d x ; \int_{0}^{a} f(x) d x=\int_{0}^{a} f(a-x) d x \\
& \int_{0}^{2 a} f(x) d x=\int_{0}^{a} f(x) d x+\int_{0}^{a} f(2 a-x) d x ;=\int_{0}^{2 a} f(x) d x=2 \int_{0}^{a} f(x) d x, \text { if } f(2 a-x)=f(x) \int_{0}^{2 a} f(x) d x=0 \text {, if } f(2 a-x)=-f(x) \\
& \int_{-a}^{a} f(x) d x= \begin{cases}2 \int_{0}^{a} f(x) d x, \text { if } f(x) \text { is even } \\
0 & \text { if } \\
\mathrm{f}(\mathrm{x}) & \text { is odd }\end{cases}
\end{aligned}
$$

Application of definite integrals in finding areas bounded by a curve, circle, parabola and ellipse in standard form between two ordinates and x-axis; Area between two curves, line and circle; line and parabola: line and ellipse.

## 24. Differential Equations

Definition; order and degree; general and particular solutions of a differential equation; formation of differential equations whose general solution is given; solution of differential equations by method of Separation of variables; Homogeneous differential equations of first order and their solutions; Solution of linear differential equations of the type $\frac{d y}{d x}+P(x) y=Q(x)$ where $\mathrm{P}(\mathrm{x}), \quad \mathrm{Q}(\mathrm{x})$ are functions of x ; Solutions of Second order differential equations $\frac{d^{2} y}{d x^{2}}=f(x)$.

## PHYSICS

## UNIT 1: INTRODUCTION AND MEASUREMENT

Physics - Scope and excitement; Physics in relation to science, society and technology - inventions, names of scientists and their fields, nobel prize winners and topics, current developments in physical sciences and related technology. Units for measurement - systems of units, S .I units, conversion from other systems to S.I units. Fundamental and derived units. Measurement of length, mass and time, least count in measuring instruments (eg. vernier calipers, screw gauge etc), Dimensional analysis and applications, order of magnitude, accuracy and errors in measurement, random and instrumental errors, significant figures and rounding off principles.

## UNIT 2 : DESCRIPTION OF MOTION IN ONE DIMENSION

Objects in motion in one dimension - Motion in a straight line, uniform motion - its graphical representation and formulae; speed and velocity - instantaneous velocity; ideas of relative velocity with expressions and graphical representations; Uniformly accelerated motion, position - time graph, velocity time graph and formulae. Elementary ideas of calculus - differentiation and integration - applications to motion.

## UNIT 3 : DESCRIPTION OF MOTION IN TWO AND THREE DIMENSIONS

Vectors and scalars, vectors in two and three dimensions, unit vector, addition and multiplication, resolution of vector in a plane, rectangular components, scalar and vector products. Motion in two dimensions - projectile motion, ideas of uniform circular motion, linear and angular velocity, relation between centripetal acceleration and angular speed.

## UNIT 4 : LAWS OF MOTION

Force and inertia, first law of motion, momentum, second law of motion, forces in nature, impulse, third law of motion, conservation of linear momentum, examples of variable mass situation, rocket propulsion, equilibrium of concurrent forces.
Static and kinetic friction, laws of friction, rolling friction, lubrication. Inertial and non-inertial frames (elementary ideas); Dynamics of uniform circular motion - centripetal and centrifugal forces, examples : banking of curves and centrifuge.

## UNIT 5 : WORK, ENERGY AND POWER

Work done by a constant force and by a variable force, units of work - Energy - kinetic and potential forms, power, work-energy theorem. Elastic and inelastic collisions in one and two dimensions. Gravitational potential energy and its conversion to kinetic energy, spring constant, potential energy of a spring, Different forms of energy, mass - energy equivalence (elementary ideas), conservation of energy, conservative and non-conservative forces.

## UNIT 6: MOTION OF SYSTEM OF PARTICLES AND RIGID BODY ROTATION.

Centre of mass of a two particle system, generalisation to $N$ particles, momentum conservation and center of mass motion, applications to some familiar systems, center of mass of rigid body. Moment of a force, torque, angular momentum, physical meaning of angular momentum, conservation of angular momentum with some examples, eg. planetary motion. Equilibrium of rigid bodies, rigid body rotation and equation of rotational motion, comparison of linear and rotational motions, moment of inertia and its physical significance, radius of gyration, parallel and perpendicular axes theorems (statements only), moment of inertia of circular ring and disc, cylinder rolling without slipping.

## UNIT 7 : GRAVITATION

Universal law of gravitation, gravitational constant (G) and acceleration due to gravity (g), weight and gravitation, variation of g with altitude, latitude, depth and rotation of earth. Mass of earth, gravitational potential energy near the surface of the earth, gravitational potential, escape velocity, orbital velocity of satellite, weightlessness, motion of geostationary and polar satellites, statement of Kepler's laws of planetary motion, proof of second and third laws, relation between inertial and gravitational masses.

## UNIT 8 : MECHANICS OF SOLIDS AND FLUIDS.

Interatomic and intermolecular forces, different states of matter. Solids: Crystalline and amorphous solids, Hooke's law, stress - strain relationships, Youngs modulus, bulk modulus, shear modulus of rigidity, some practical examples. Fluids : Pressure due to fluid column, Pascal's law and its applications (hydraulic lift and hydraulic brakes), effect of gravity on fluid pressure, Buoyancy, laws of floatation and Archimedes principles, atmospheric pressure. Surface energy and surface tension, angle of contact, examples of drops and babbles, capillary rise, detergents and surface tension, viscosity, sphere falling through a liquid column, Stokes law, streamline flow, Reynold's number, equation of continuity, Bernoulli's theorum and applications.

## UNIT 9 : HEAT AND THERMODYNAMICS

Kinetic theory of gases, assumptions, concept of pressure, kinetic energy and temperature, mean-rms and most probable speed, degrees of freedom, statement of law of equipartition of energy, concept of mean free path and Avogadros' number
Thermal equilibrium and temperatures, zeroth law of thermodynamics, Heat-work and internal energy, Thermal expansion - thermometry. First law of thermodynamics and examples, specific heat, specific heat of gases at constant volume and constant pressure, specific heat of solids, Dulong and Petit's law. Thermodynamical variables and equation of state, phase diagrams, ideal gas equation, isothermal and adiabatic processes, reversible and irreversible processes, Carnot engines, refrigerators and heat pumps, efficiency and coefficient performance of heat engines, ideas of second law of thermodynamics with practical applications. Thermal radiation - Stefan-Boltzmann law, Newton's law of cooling, Kirchoff's law and black body radiation, Wien's displacement law, solar constant and surface temperature of the sun.

## UNIT 10 OSCILLATIONS

Periodic motion - period, frequency, displacement as a function of time and periodic functions; Simple harmonic motion (S.H.M) and its equation, uniform circular motion and simple harmonic motion, oscillations of a spring, restoring force and force constant, energy in simple harmonic motion, kinetic and potential energies, simple pendulum - derivation of expression for the period; forced and damped oscillations and resonance (qualitative ideas only), coupled oscillations

## UNIT 11. WAVES

Longitudinal and transverse waves, wave motion, displacement relation for a progressive wave, speed of a traveling wave, principle of superposition of waves, reflection of waves, standing waves in strings and pipes, fundamental mode and harmonics, beats, Doppler effect of sound with applications.

## UNIT 12: ELECTROSTATICS

Frictional electricity; Properties of electric charges - conservation, additivity and quantisation. Coulomb's law - Forces between two point electric charges, Forces between multiple electric charges; Superposition principle and continuous charge distribution. Electric field and its physical significance, electric field due to a point charge, electric field lines; Electric dipole, electric field due to a dipole and behavior and dipole in a uniform electric field. Electric potential-physical meaning, potential difference, electric potential due to a point charge, a dipole and system of charges; Equipotential surfaces, Electrical potential energy of a system of point charges, electric dipoles in an electrostatic field. Electric flux, statement of Gauss' theorem-its application to find field due to an infinitely long straight wire, uniformly charged infinite plane sheet and uniformly charged thin spherical shell. Conductors and insulatorspresence of free charges and bound charges; Dielectrics and electric polarization, general concept of a capacitor and capacitance, combination of capacitors in series and in parallel, energy stored in a capacitor, capacitance of a parallel plate capacitor with and without dielectric medium between the plates, Van de Graff generator.

## UNIT 13: CURRENT ELECTRICITY

Electric current, flow of electric charges in a metallic conductor, drift velocity and mobility, their relation with electric current; Ohm's law, electrical resistance, V-I characteristics, limitations of Ohm's law, electrical resistivity and conductivity, classification of materials in terms of conductivity; Superconductivity (elementary idea); Carbon resistors, colour code for carbon resistors; combination of resistances - series and parallel. Temperature dependence of resistance. Internal resistance of a cell, Potential difference and emf of a cell, combination of cells in series and in parallel. Kirchoff's lawsillustration by simple applications, Wheatstone bridge and its applications, Meter bridge. Potentiometer principle and applications to measure potential difference, comparison of emf of two cells and determination of internal resistance of a cell. Electric power, thermal effects of current and Joule's law; Chemical effects of current, Faraday's laws of electrolysis, Electro-chemical cells, Primary and secondary cells, solid state cells. Thermoelectricity-origin, elementary ideas of Seebeck effect, Peltier effect and Thomson effect. Thermocouple, Thermo emf, neutral and inversion temperatures, Measurement of temperature using a thermo- couple.

## UNIT 14: MAGNETIC EFFECT OF CURRENT AND MAGNETISM

Concept of a magnetic field, Oersted's experiment, Biot-Savart's law, magnetic field due to an infinitely long current carrying straight wire and a circular loop, Ampere's circuital law and its applications to straight and toroidal solenoids. Force on a moving charge in a uniform magnetic field, cyclotron. Force on current carrying conductor and torque on current loop in magnetic fields, force between two parallel current carrying conductors, definition of the ampere. Moving coil galvanometer and its conversion into ammeter and voltmeter. Current loop as a magnetic dipole, magnetic moment, torque on a magnetic dipole in a uniform magnetic field, Lines of force in magnetic field. Comparison of a bar magnet and solenoid. Earth's magnetic field and magnetic elements, tangent galvanometer, vibration magnetometer. Para, dia and ferromagnetic substances with examples. Electromagnets and permanent magnets.

## UNIT 15: ELECTROMAGNETIC INDUCTION AND ALTERNATING CURRENT

Electromagnetic induction, Faraday's laws, Induced e.m.f. and current, Lenz's law, Eddy currents, self and mutual inductance. Alternating current, peak and rms value of alternating current/voltage, reactance and impedance, L.C. oscillations, LCR series circuit. (Phasor diagram), Resonant circuits and Q-factor; power in A.C. circuits, wattless current.
AC generator and Transformer.

## UNIT 16: ELECTROMAGNETIC WAVES

Properties of electromagnetic waves and Maxwell's contributions (qualitative ideas), Hertz's experiments, Electromagnetic spectrum (different regions and applications), propagation of electromagnetic waves in earth's atmosphere.

## UNIT 17: OPTICS

Refraction of light, total internal reflection and its applications, spherical lenses, thin lens formula, lens maker's formula; Magnification, Power of a lens, combination of thin lenses in contact; Refraction and dispersion of light due to a prism, Scattering of light, Blue colour of the sky and appearance of the sun at sunrise and sunset. Optical instruments, Compound microscope, astronomical telescope (refraction and
reflection type) and their magnifying powers. Spectrometer -its use for determination of refractive index of the material of a prism. Wave front and Huygen's principle. Reflection and refraction of plane wave at a plane surface using wave fronts (qualitative idea); Interference-Young's double slit experiment and expression for fringe width, coherent sources and sustained interference of light; Diffraction due to a single slit, width of central maximum, difference between interference and diffraction, resolving power of microscope and telescope; Polarisation, plane polarised light, Brewster's law, Use of polarised light and polaroids.

## UNIT 18: DUAL NATURE OF MATTER AND RADIATIONS

Photoelectric effect, Einstein photoelectric equation - particle nature light, photo-cell, Matter waves wave nature of particles. De Broglie relation, Davisson and Germer experiment.

## UNIT 19: ATOMIC NUCLEUS

Alpha particle scattering experiment, size of the nucleus - composition of the nucleus - protons and neutrons. Nuclear instability - Radioactivity-Alpha, Beta and Gamma particle/rays and their properties, radio- active decay laws, Simple explanation of -decay, -decay and decay; mass-energy relation, mass defect, Binding energy per nucleon and its variation with mass number. Nature of nuclear forces, nuclear reactions, nuclear fission, nuclear reactors and their uses; nuclear fusion, elementary ideas of energy production in stars.

## UNIT 20: SOLIDS AND SEMICONDUCTOR DEVICES

Energy bands in solids (qualitative ideas only), difference between metals, insulators and semi-conductors using band theory; Intrinsic and extrinsic semi-conductors, p-n junction, Semi-conductor diodecharacteristics forward and reverse bias, diode as a rectifier, solar cell, photo-diode, zener diode as a voltage regulator; Junction transistor, characteristics of a transistor; Transistor as an amplifier (common emitter configuration) and oscillator; Logic gates (OR, AND, NOT, NAND, NOR); Elementary ideas about integrated circuits.

## UNIT 21: PRINCIPLES OF COMMUNICATIONS

Elementary idea of analog and digital communication; Need for modulation, amplitude, frequency and pulse modulation; Elementary ideas about demodulation, Data transmission and retrieval, Fax and Modem. (basic principles) Space communications - Ground wave, space wave and sky wave propagation, satellite communications, ideas of remote sensing. Line communications - wire transmission lines, coaxial cables and optical fibres; telephone links, optical fibre communications (qualitative ideas)

## CHEMISTRY

## UNIT 1: BASIC CONCEPTS AND ATOMIC STRUCTURE

Laws of chemical combination: Law of conservation of mass. Law of definite proportion, Law of multiple proportions. Gay-Lussac's law of combining volumes. Dalton's atomic theory. Mole concept. Atomic, molecular and molar masses. Chemical equations. Balancing and calculation based on chemical equations.
Atomic structure: Fundamental particles. Rutherford model of atom. Nature of electromagnetic radiation. Emission spectrum of hydrogen atom. Bohr model of hydrogen atom. Drawbacks of Bohr model. Dual nature of matter and radiation. de Broglie relation. Uncertainty principle. Wave function (mention only). Atomic orbitals and their shapes ( $\mathrm{s}, \mathrm{p}$ and d orbitals only). Quantum numbers. Electronic configurations of elements. Pauli's exclusion principle. Hund's rule. Aufbau principle.

## UNIT 2: BONDING AND MOLECULAR STRUCTURE

Kossel and Lewis approach of bonding. Ionic bond. Lattice energy. Born-Haber cycle. Covalent bond. Lewis structure of covalent bond. Concept of orbital overlap. VSEPR theory and geometry of molecules. Polarity of covalent bond. Valence bond theory and hybridization ( $s p, \mathrm{sp}^{2}, \mathrm{sp}^{3}, \mathrm{dsp}^{2}, \mathrm{~d}^{2} \mathrm{sp}{ }^{3}$ and $\mathrm{sp}^{3} \mathrm{~d}^{2}$ ). Resonance. Molecular orbital method. Bond order. Molecular orbital diagrams of homodiatomic molecules. Bond strength and magnetic behaviour. Hydrogen bond. Coordinate bond. Metallic bond.

## UNIT 3: STATES OF MATTER

Gaseous state: Boyle's law. Charles' law. Avogadro's hypothesis. Graham's law of diffusion. Absolute scale of temperature. Ideal gas equation. Gas constant and its values. Dalton's law of partial pressure. Aqueous tension. Kinetic theory of gases. Deviation of real gases from ideal behaviour. van der Waals equation. Liquefaction of gases. Joule-Thomson effect. Critical temperature.
Liquid state: Properties of liquids. Vapour pressure and boiling point. Surface tension. Viscosity.
Solid state: Types of solids (ionic, covalent and molecular). Space lattice and unit cells. Cubic crystal systems. X-ray studies of crystals. The Bragg equation. Close packing. Different voids (tetrahedral and octahedral only). Structures of simple ionic compounds of $A B$ and $A B_{2}$ types. Density calculations. Point defects (Frenkel and Schottky). Electrical properties of solids. Conductors, semiconductors and insulators. Piezoelectric and pyroelectric crystals. Magnetic properties of solids. Diamagnetic, paramagnetic, ferromagnetic, antiferromagnetic and ferrimagnetic substances.

UNIT 4: PERIODIC PROPERTIES OF ELEMENTS AND HYDROGEN
Classification of elements: Mendeleev's periodic table. Atomic number and modern periodic law. Long form of periodic table. Electronic configurations of elements and their position in the periodic table. Classification into s -, p -, d - and f-block elements. Periodic properties: lonization energy, electron affinity, atomic radii, valence and electronegativity.
Hydrogen: Position in the periodic table, occurrence, isolation, preparation (including commercial), properties, reactions and uses. Isotopes of hydrogen. Hydrides: Molecular, saline and interstitial hydrides. Water: Structure of water molecule and its aggregates. Physical and chemical properties of water. Hard and soft water. Removal of hardness. Preparation and uses of heavy water: Liquid hydrogen as fuel.

## UNIT 5: S-BLOCK ELEMENTS AND PRINCIPLES OF METALLURGY

Alkali metals: Occurrence, electronic configuration, trends in atomic and physical properties (ionization energy, atomic radii and ionic radii), electrode potential, and reactions with oxygen, hydrogen, halogens and liquid ammonia. Oxides, hydroxides and halides.
Alkaline earth metals: Occurrence, electronic configuration, trends in atomic and physical properties, electrode potential, and reactions with oxygen, hydrogen and halogens. Oxides, hydroxides, halides and sulphides.
Anomalous properties of lithium and beryllium. Compounds of s-block elements: Large scale preparation of NaOH and $\mathrm{Na}_{2} \mathrm{CO}_{3}$, their properties and uses. Preparation and properties of $\mathrm{CaO}, \mathrm{Ca}(\mathrm{OH})_{2}$, Plaster of Paris and $\mathrm{MgSO}_{4}$. Industrial uses of lime, limestone and cement.
Principles of metallurgy: Occurrence of metals. Concentration of ores. General principles of extraction of metals from ore. Refining of metals. Extraction of sodium, aluminium, iron and copper. Manufacture of steel. Different types of steel. Heat treatment and uses of steel.

## UNIT 6: P-BLOCK ELEMENTS

General characteristics of $\mathbf{p}$-block elements: atomic and physical properties. Oxidation states. Trends in chemical reactivity of Groups 13, 14, 15, 16 and 17 elements.
Boron: Occurrence, isolation, physical and chemical properties. Borax and boric acid. Boron hydrides. Structure of diborane. Uses of boron and its compounds. Carbon: Allotropes, properties, carbides, halides and sulphide. Nitrogen: Terrestrial abundance and distribution, isolation, properties and chemical reactivity. Fixation of nitrogen. Ammonia: Haber process of manufacture, properties and uses. Nitric acid: Ostwald process of manufacture and important uses. Oxides of nitrogen: Preparation and structures (skeletal only). Oxygen: Terrestrial abundance, isolation, properties and chemical reactivity. Oxides: Acidic, basic and amphoteric oxides. Preparation, structure, properties and uses of ozone and hydrogen peroxide.
Silica: Different forms and uses. Structures of silicates. Phosphorus: Production, allotropes and phosphine. Preparation and structures of $\mathrm{PCl}_{3}, \mathrm{PCl}_{5}, \mathrm{P}_{4} \mathrm{O}_{6}, \mathrm{P}_{4} \mathrm{O}_{10}$, oxyacids of phosphorus. Comparison of halides, hydrides and oxides of Group 15 elements. Sulphur: Production, allotropes, oxides and halides. Hydrogen sulphide: Preparation, properties and uses in qualitative analysis. Sulphuric acid: Manufacture, properties and uses. Preparation and properties of $\mathrm{Na}_{2} \mathrm{~S}_{2} \mathrm{O}_{3}$. Comparison of oxides, halides and hydrides of Group 17 elements. Hydrides, oxides and oxyacids of chlorine. Preparation and properties of bleaching powder. Interhalogen compounds.

Group 18 elements: Occurrence, isolation, atomic and physical properties, uses. Compounds of xenon: Preparation of fluorides and oxides, and their reactions with water.

## UNIT 7: D-BLOCK AND F-BLOCK ELEMENTS

d-Block elements: Electronic configuration and general characteristics. Metallic properties, ionization energy, electrode potential, oxidation states, ionic radii, catalytic properties, coloured ions, complex formation, magnetic properties, interstitial compounds and alloys. Preparation and properties of $\mathrm{KMnO}_{4}$, $\mathrm{K}_{2} \mathrm{Cr}_{2} \mathrm{O}_{7}, \mathrm{CuSO}_{4} \cdot 5 \mathrm{H}_{2} \mathrm{O}, \mathrm{AgNO}_{3}$, and halides of silver and mercury. Photography.
f-Block elements: Lanthanides: Occurrence, electronic configuration and oxidation states. Lanthanide contraction. Uses. Actinides: Occurrence, electronic configuration and comparison with lanthanides.

## UNIT 8: NUCLEAR CHEMISTRY

Natural radioactivity: Properties of alpha, beta and gamma radiations. Group displacement law. Nuclear stability and binding energy. Nuclear reactions. Radioactive disintegration series. Rate of radioactive disintegration and half life. Artificial radioactivity: Transmutation of elements. Nuclear energy. Nuclear fission and nuclear fusion. Nuclear reactors. Radio isotopes and their uses. Radiochemical dating. Synthetic elements.

## UNIT 9: THERMODYNAMICS

System and surrounding: Types of systems. Types of processes. Intensive and extensive properties. State functions and path functions. Reversible and irreversible processes. Zeroth law. First law of thermodynamics: Internal energy and enthalpy. Application of first law of thermodynamics. Enthalpy changes during phase transition. Enthalpy changes in chemical reactions. Standard enthalpy of formation. Hess's law of constant heat summation and numerical problems. Second law of thermodynamics: Entropy and Gibbs free energy. Free energy change and chemical equilibrium. Criteria for spontaneity.

UNIT 10: CHEMICAL EQUILIBRIUM
Physical and chemical equilibria: Dynamic nature of equilibrium. Equilibria involving physical changes (solid-liquid, liquid-gas, dissolution of solids in liquids and dissolution of gases in liquids). General characteristics of equilibria involving physical processes. Equilibria involving chemical systems: Law of chemical equilibrium. Magnitude of equilibrium constant. Numerical problems. Effect of changing conditions of systems at equilibrium (changes of concentration, temperature and pressure). Effect of catalyst. The Le Chatelier principle and its applications. Relationship between $\mathrm{K}_{\mathrm{p}}$ and $\mathrm{K}_{\mathrm{c}}$. Ionic equilibrium. Ionization of weak and strong electrolytes. Concepts of acids and bases: Those of Arrhenius, Bronsted-Lowry and Lewis. Acid-base equilibrium. Ionization of water. pH scale. Salt hydrolysis. Theory of acid-base indicators. Solubility product. Common ion effect. Buffer action and buffer solutions.

## UNIT 11: SOLUTIONS

Types of solutions: Different concentration terms (normality, molarity, molality, mole fraction and mass percentage). Solubility of gases and solids. Vapour pressure of solutions and Raoult's law. Deviation from Raoult's law. Colligative properties: Lowering of vapour pressure, elevation in boiling point, depression in freezing point and osmotic pressure. Ideal and non-ideal solutions. Determination of molecular mass. Abnormal molecular mass. The van't Hoff factor and related numerical problems

## UNIT 12: REDOX REACTIONS AND ELECTROCHEMISTRY

Oxidation and reduction: Electron transfer concept. Oxidation number. Balancing equations of redox reactions: Oxidation number method and ion electron method (half reaction method).
Faraday's laws of electrolysis: Quantitative aspects. Electrolytic conduction. Conductance. Molar conductance. Kohlrausch's law and its applications. Electrode potential and electromotive force (e.m.f.). Reference electrode (SHE only). Electrolytic and Galvanic cells. Daniel cell. The Nernst equation. Free energy and e.m.f. Primary and secondary cells. Fuel cell ( $\mathrm{H}_{2}-\mathrm{O}_{2}$ only). Corrosion and its prevention: Electrochemical theory of rusting of iron. Methods of prevention of corrosion. Galvanization and cathodic protection.

UNIT 13: CHEMICAL KINETICS
Rate of reaction. Average and instantaneous rates. Rate expressions. Rate constant. Rate law. Order and molecularity. Integrated rate law expressions for zero and first order reactions and their derivations. Units of rate constant. Half life period. Temperature dependence of rate constant. Arrhenius equation. Activation energy and related numerical problems. Elementary and complex reactions with examples.

## UNIT 14: SURFACE CHEMISTRY

Adsorption: Physical and chemical adsorption. Factors affecting adsorption. Effect of pressure. Freundlisch adsorption isotherm. Langmuir adsorption isotherm. Catalysis. Enzymes. Zeolites. Colloids: Colloids and suspensions. Dispersion medium and dispersed phase. Types of colloids: Lyophobic, lyophilic, multimolecular, macromolecular and associated colloids. Preparation, properties and protection of colloids. Gold number. Hardy Schulze rule. Emulsions.

UNIT 15: COORDINATION COMPOUNDS AND ORGANOMETALLICS
Ligand. Coordination number. IUPAC nomenclature of coordination compounds. Isomerism in coordination compounds. Geometrical, optical and structural isomerism. Bonding in coordination compounds. Werner's coordination theory. Valence bond approach. Hybridization and geometry. Magnetic properties of octahedral, tetrahedral and square planar complexes. Introduction to crystal field theory. Splitting of d orbitals in octahedral and tetrahedral fields (qualitative only). Importance of coordination compounds in qualitative analysis and biological systems such as chlorophyll, hemoglobin and vitamin $B_{12}$ (structures not included).

UNIT 16: BASIC PRINCIPLES, PURIFICATION AND CHARACTERIZATION OF ORGANIC COMPOUNDS
Distinction between organic and inorganic compounds. Tetra valence of carbon. Catenation. Hybridization ( $\mathrm{sp}, \mathrm{sp}^{2}$ and $\mathrm{sp}{ }^{3}$ ). Shapes of simple molecules. General introduction to naming of organic compounds. Trivial names and IUPAC nomenclature. Illustrations with examples. Structural isomerism. Examples of functional groups containing oxygen, hydrogen, sulphur and halogens. Purification of carbon compounds: Filtration, crystallization, sublimation, distillation, differential extraction and chromatography (column and paper only). Qualitative analysis: Detection of carbon, hydrogen, nitrogen and halogens. Quantitative analysis: Estimation of carbon, hydrogen, nitrogen, sulphur, phosphorus and halogens (principles only), and related numerical problems. Determination of molecular mass: Silver salt method and chloroplatinate salt method. Calculation of empirical and molecular formulae.

## UNIT 17: HYDROCARBONS

Classification of hydrocarbons. Alkanes and cycloalkanes: Nomenclature and conformation of ethane, propane, butane and cyclohexane. 3D structures and 2D projections (Sawhorse and Newman). Alkenes and alkynes: Nomenclature. Geometrical isomerism in alkenes. Stability of alkenes. General methods of preparation. Physical and chemical properties. Markownikoff's rule. Peroxide effect. Acidic character of alkynes. Polymerization reactions of dienes.
Aromatic hydrocarbons: Nomenclature. Isomerism. Source of aromatic hydrocarbons. Coal and petroleum. Benzene and its homologues. Structure of Benzene. Resonance. Delocalisation in benzene. Concept of aromaticity (an elementary idea). Chemical reactions of benzene. Polynuclear hydrocarbons and their toxicity.
Petroleum and petrochemicals: Composition of crude oil. Fractionation. Uses of different fractions. Quality of gasoline. LPG and CNG. Cracking and reforming of petrochemicals

## UNIT 18: ORGANIC REACTION MECHANISM

Electronic displacement in a covalent bond: Inductive, electromeric, resonance and hyperconjugation effects. Fission of a covalent bond. Free radicals, electrophiles, nucleophiles, carbocations and carbanions
Common types of organic reactions: Substitution, addition, elimination and rearrangement reactions. Illustrations with examples. Mechanism of electrophilic addition reactions in alkenes. Concept of delocalisation of electrons. Addition reactions in dienes (1,2- and 1,4- additions). Mechanism of electrophilic substitution reactions. Directive influence of substituents and their effect on reactivity (in benzene ring only).

UNIT 19: STEREOCHEMISTRY
Stereoisomerism: Geometrical isomerism and optical isomerism. Specific rotation. Chirality and chiral objects. Chiral molecules. Configuration and Fischer projections. Asymmetric carbon. Elements of symmetry. Compounds containing one chiral center. Enantiomers. Racemic form. Racemization. Compounds containing two chiral centers. Diastereo isomers. Meso form. Resolution. Importance of stereochemistry.

UNIT 20: ORGANIC COMPOUNDS WITH FUNCTIONAL GROUPS CONTAINING HALOGENS
Haloalkanes and haloarenes: Nomenclature and general methods of preparation. Physical properties. Nature of C-X bond in haloalkanes and haloarenes. Chemical properties and uses of chloromethane and chlorobenzene. Polyhalogen compounds: Preparation and properties of chloroform and iodoform. Uses of some commercially important compounds (chloroform, iodoform, DDT, BHC and freon).

UNIT 21: ORGANIC COMPOUNDS WITH FUNCTIONAL GROUPS CONTAINING OXYGEN
Alcohols: Nomenclature. Important methods of preparation (from aldehydes, ketones, alkyl halides and hydration of alkenes). Manufacture of ethanol from molasses and starch. Physical and chemical properties. Reactions with alkali metals and acids. Formation of alkenes, ethers and esters. Reactions with $\mathrm{PX}_{3}, \mathrm{PX}_{5}, \mathrm{SOCl}_{2}$. Oxidation of alcohols. Dehydrogenation.
Phenols: Nomenclature. Preparation of phenol (from sodium benzenesulphonate, benzene diazoniumchloride and chlorobenzene). Physical and chemical properties of phenol. Acidity of phenol. Action of phenol with $\mathrm{FeCl}_{3}$. Bromination, sulphonation and nitration of phenol.
Ethers: Nomenclature. Methods of preparation (from alcohols and alkyl halides). Williamson's synthesis. Physical and chemical properties. Formation of peroxides. Actions with $\mathrm{HI}, \mathrm{HF}$ and $\mathrm{H}_{2} \mathrm{SO}_{4}$.
Some commercially important compounds: Methanol, ethanol (fermentation), glycol and glycerol. Ascending and descending in alcohol series.
Aldehydes and ketones: Nomenclature. Electronic structure of carbonyl group. Methods of preparation (from alcohols, acid chlorides, ozonolysis of alkenes and hydration of alkynes). Friedel-Crafts acylation for acetophenone. General properties (physical and chemical) of aldehydes and ketones. Formation of paraldehyde and metaldehyde. Addition of $\mathrm{NaHSO}_{3}, \mathrm{NH}_{3}$ and its derivatives, Grignard reagent, HCN and alcohols. Oxidation reactions with Tollen's reagent and Fehling's solution. Oxidation of ketones. Reduction with $\mathrm{LiAlH}_{4}$. Clemmensen reduction. Wolff- Kischner reduction. Aldol condensation. Cannizzaro reaction.
Carboxylic acid: Nomenclature. Electronic structure of -COOH . Methods of Preparation (from alcohols, aldehydes, ketones, alkyl benzenes and hydrolysis of cyanide). Physical properties. Effects of substituents on acid strength. Chemical reactions.
Derivatives of carboxylic acids: Nomenclature. Esters, acid chlorides, amides and anhydrides. Important methods of preparation.

## UNIT 22: ORGANIC COMPOUNDS WITH FUNCTIONAL GROUPS CONTAINING NITROGEN

Nitrocompounds: Nomenclature. Electronic structure of nitro group. Preparation and properties. Amines: Nomenclature. Primary, secondary and tertiary amines. Methods of preparation. Physical properties. Basic nature. Chemical reaction. Separation of primary, secondary and tertiary amines. Cyanides and isocyanides. Diazonium salts. Preparation and chemical reactions of benzene diazoniumchloride in synthetic organic chemistry.

## UNIT 23: POLYMERS AND BIOMOLCULES

Polymers: Classification. Addition and condensation polymerization. Copolymerization. Natural rubber and vulcanization. Synthetic rubbers. Condensation polymers. Biopolymers. Biodegradable polymers. Some commercially important polymers: Polyethene, polystyrene, PVC, Teflon, PAN, BUNA-N, BUNA-S, neoprene, Terylene, glyptal, nylon-6, nylon-66 and Bakelite.
Biomolecules: The cell energy cycle. Classification of carbohydrates. Structure and properties of glucose. Reducing and non-reducing sugars: Properties of sucrose, maltose and lactose (structures not included). Polysaccharides: Properties of starch and cellulose. Proteins: Amino acids. Zwitterions. Peptide bond. Polypeptides. Primary, secondary and tertiary structures of protein. Denaturation of proteins. Enzymes. Nucleic acids. Types of nucleic acids. DNA and RNA, and their chemical composition. Primary structure of DNA. Double helix. Replication, translation and transcription. Protein synthesis. Genetic code. Lipids:

Classification, structural features and functions in biosynthesis. Hormones: Classification, structural features and functions in biosystems. Vitamins: Classification and functions in biosystems.

## UNIT 24: ENVIRONMENTAL CHEMISTRY AND CHEMISTRY IN EVERY DAY LIFE

Soil, water and air pollutions. Ozone layer. Smog. Acid rain. Green house effect and global warming. Industrial air pollution. Importance of green chemistry.
Chemicals in medicine and health care. Analgesics, tranquillizers, antiseptics, antacids and dyes. Classification of dyes with examples. Indigo, methyl orange and alizarin. Chemicals in cosmetics: Creams, perfumes, talc powder and deodorants. Advanced materials: Carbon fibers, ceramics, chemicals in food, preservatives, artificial sweetening agents, antioxidants and edible colours. Insect repellents. Pheromones. Sex attractants. Rocket propellants: Characteristics and chemicals used.

## BIOLOGY

## UNIT 1: LIVING WORLD

Biology and its branches: relationship with other sciences; scientific methods in biology; historical break through (ancient, medieval and modern); scope in biology and career options; role of Biology in dispelling myths and misbelieves; Characters of living organisms (elementary ideas of organization, metabolism, energy transfer devices of life, homeostasis, growth and reproduction, adaptation, survival and death).

## UNIT 2: DIVERSITY OF PLANT LIFE

2.1 Systematics/Taxonomy and its importance; Artificial, natural and phylogenetic types of classifications with examples; Biosystematics; Binomial nomenclature (guidelines and merits); Systems of classification: a) Two Kingdom (brief description with emphasis on criteria and demerits). b) Five Kingdom (brief description with emphasis on criteria, merits and demerits); Descriptive features of kingdoms: Monera, Protista, Fungi, Plantae and Animalia; Status of virus; Botanical gardens and herbaria.
2.2 Plant Groups
I. Thallophyta
a) Algae: Salient, comparative features of Rhodophyta, Phaeophyta and Chlorophyta with examples.
b) Fungi: Salient features of Myxomycetes, Phycomycetes, Ascomycetes and Basidiomycetes with examples.
c) Lichens: General features with examples.

Bryophyta: General features with special mention on aquatic to terrestrial evolution; alternation of generations of Hepaticae and Musci with examples.
Pteridophytes : General features with examples.
IV. Gymnosperms: General features with examples.
V. Angiosperms: Unique features of angiosperms with examples.
2.3 Morphology of Angiosperms

Morphological structures of root, stem and leaf: Their structural and functional modification with examples.
Inflorescence: Racemose, Cymose (different sub-types with examples), Special types (Cyathium, Verticillaster, Hypanthodium). Morphological characters of flower; Morphological differentiation of different types of fruits and seeds with examples.
2.4 Taxonomy of Angiosperms : Description on classification of angiosperms upto series level (Benthem and Hooker's System).
Description of Taxonomical Types (With floral diagram and floral formula)

1. Malvaceae - Eg. Hibiscus rosasinensis.
2. Fabaceae - Eg. Crotalaria sp.
(Papilionaceae)
3. Rubiaceae - Eg. Ixora sp
4. Asteraceae - Eg. Tridax sp.
(Compositae)

| 5. | Liliaceae | - | Eg. Gloriosa sp. |
| :--- | :--- | :--- | :--- |
| 6. | Poaceae |  |  |
|  | (Graminae) |  |  |$\quad$ Eg. Oryza sp.

### 2.5 Plant Anatomy

Tissue: Meristematic (Classification based on origin, position and plane of division); Permanent (Simple and complex types); Tissue systems (epidermal, ground and vascular); Anatomy of root and stem (primary structure) of monocot and dicot; Anatomy of leaf of monocot and dicot; Normal secondary growth of stem and root.

## UNIT 3: CELL AND CELL DIVISION

3.1 Cell as a basic unit of life; Cell theory; Cell as a self-contained unit, unicellularity and multicellularity, prokaryotic and eukaryotic systems.
Tools and techniques: Different types of optical microscope, electron microscope and cell fractionation (centrifugation, chromatography and electrophoresis).
3.2 Ultra Structure: Prokaryotic and eukaryotic cell, cell wall, cell membrane (Fluid Mosaic Model), unit membrane concept, membrane transport, cellular movements (endocytosis and exocytosis); Description of cell organelles and their functions (nucleus, mitochondria, plastids, endoplasmic reticulum, golgi bodies, lysosomes, cytoskeletal structures, cilia and flagella, centriole, ribosomes).
3.3 Macromolecules of cell: Inorganic and organic materials (water, salt, mineral ions, carbohydrates, lipids, amino acids, proteins, nucleotides, nucleic acids (RNA and DNA), enzymes (properties, chemical nature and mechanism of action), vitamins, hormones and steroids.
3.4 Cell cycle: Cell division, description of amitosis, mitosis and meiosis - their significance, differences in animal and plant cell divisions, karyotype analysis.

## UNIT 4: PHYSIOLOGY OF PLANTS

Cell as a Physiological Unit: composition of protoplasm, water relations (imbibition, diffusion, osmosis, plasmolysis, permeability, water potential), absorption and movement - active (osmotic and non-osmotic) and passive.
Translocation of water: Theories -- root pressure, transpiration pull. Transpiration: Mechanism of opening and closing of stomata (potassium ion theory), factors affecting stomatal movement, factors affecting rate of transpiration, guttation, significance of transpiration.
Mineral nutrition: Functions of minerals, essential major elements and trace elements, deficiency symptoms of elements. Theories of translocation - passive (diffusion, ion exchange, mass flow, Donnan's equilibrium), active (carrier concept); Translocation of solutes (Stout and Hoagland concept). Nitrogen metabolism: Nitrogen cycle, biological nitrogen fixation, mechanism, synthesis of amino acids (reductive amination, transamination, amides).
Photosynthesis: Significance, photosynthetic apparatus, functional aspects of chlorophyll structure, action spectra and absorption spectra. Mechanism: Photochemical phase, photo phosphorylation (cyclic and non cyclic electron transport system), biosynthetic phase ( $C_{3}, C_{4}$ and CAM pathways); Photorespiration and its mechanism; Factors affecting photosynthesis (Blackmann's law of limiting factor). Mode of nutrition: Autotrophic, heterotrophic, saprophytic and parasitic. Insectivorous plants. Chemosynthesis.
Respiration: Significance, site of respiration, mechanism: Glycolysis, Kreb's cycle, electron transport system and oxidative phosphorylation, pentose phosphate pathway: Respiratory quotient, compensation point; Anaerobic respiration, fermentation; Factors affecting respiration.

## UNIT - 5 - REPRODUCTION, GROWTH AND DEVELOPMENT

Modes of reproduction in flowering plants
Vegetative propagation (natural and artificial), micro-propagation, significance. Sexual reproduction: Development of male and female gametophytes, pollination types and factors, double fertilization, incompatibility; embryo development, seed and fruit development, parthenogenesis and parthenocarpy.

## Plant Growth

Characteristic features, measurement of growth, growth curve, growth rate, growth regulators (phytohormones): auxins, gibberellins, cytokines, ethylene, abscisic acid (ABA) and their role. Seed germination: types, mechanism and factors affecting germination, role of growth regulators in seed
dormancy. Senescence, abscission, stress factors (salt and water) and growth. Plant movements: phototropism, geotropism, hydrotropism, turgor growth movements (tropic, nastic and nutation), Process of flowering, photoperiodism and vernalisation.

## UNIT 6: ECOLOGY AND ENVIRONMENT

Organisms and their environment: Factors: abiotic (air, water, soil, temperature and light) and biotic; Range of tolerance, acclimatization, ecological adaptation to different environments in plants.
Levels of organization: Population, species, community, ecosystem and biosphere; Ecological interactions: Symbiosis, mutualism, commensalism, parasitism, predation and competition.
Ecosystem: Structure and function with respect to aquatic and terrestrial ecosystems (pond and grassland), productivity, energy flow, ecological efficiencies, decomposition and nutrient cycling (nitrogen and phosphorus cycle). Major biomes: Forest, grassland and deserts.
Ecological succession: Types and mechanism. Natural resources: Types: Inexhaustible. Exhaustible (renewable and non renewable). Principal natural resources: Soil, water, land, forest, energy, marine, mineral, Forest and wild life resource. Use and misuse of natural resources.

Environmental pollution: Sources of air, water, soil and noise pollution; Major pollutants in big cities in our country; their effects and methods of control. Pollution due to radioactive substances. Disposal of nuclear wastes. Effect and control of radiation pollution.
Global environmental changes: green house gases, global warming, sea level rise, and ozone layer depletion.

## UNIT 7 - APPLICATIONS OF BIOLOGY

Food production, breeding, improved varieties, bio-fertilizers, crop and animal diseases, bio-pesticides. Plant tissue culture and its application, genetically modified food, bio-war, bio-piracy, bio-patent, biotechnology and sustainable agriculture.

## UNIT 8 - ORIGIN AND EVOLUTION OF LIFE

1. Origin of Earth 1.1 Theory of Origin of Earth 1.1.1 Big Bang Theory
2. Origin of Life 2.1 Various Theories 2.1.1 Special Creation 2.1.2 Cosmic (extra terrestrial)origin, 2.1.3 abiogenic origin (chemical evolution) 2.1.4 Oparin-Haldane Hypothesis.
3. Primary abiogenesis 3.1 Harold Urey \& Stanley Miller experiment 3.1.1 Primitive conditions of earth 3.1.2 Formation of biopolymers 3.1.4 factors required for polymeric biomolecules 3.1.5 Conditions required for origin of life 3.1.6 Protobionts, coacervates, microsphores, purine $\mathbb{\&}$ pyrimidine bases of nucleic acids.
4. $\quad$ Theories of Evolution 4.1.1 Plato - Eidos 4.1.2 Aristotle, Ladder of Nature or Scala, Nature or Great Chain of being 4.1.3 Lamarckism (J.B.Lamarck) -Theory of Inheritance of Acquired Characters or Theory of Use and Disuse 4.1.4 Principle \& Criticism (NeoLamarckism).
5. Darwin's Theory of Evolution 5.1 Natural Selection 5.1.1 Principle of Natural Selection - 5.1.2 Example of Natural Selection - Industrial Melanism 5.1.3 Criticism of Darwin's Theory - 5.1.4 Neodarwinism.
6. Mutation Theory of de Vries 6.1.1 Observation on Oenothera lamarckiana 6.1.2 Principles \& Criticism of Theory of Mutation.
7. Evidences of Evolution 7.1.1 Palaentological, Embryological 7.1.2 Morphological 7.1.3 Anatomical 7.1.4 Biogeographical.
8. Variation 8.1 Definitions 8.1.2 Sources of Variation 8.1.3 Mutation 8.1.4 Recombination 8.1.4 Genetic drift 8.1.5 Gene migration and natural Selection.
9. Population Genetics \& Evolution 9.1 Hardy Weinberg Equilibrium.
10. Genetic Basis of Adaptation 10.1.1 Replica plating experiment of Lederberg and Lederberg 10.1.2 Genetic Polymorphism - Eg: Blood group \& sickle cell anaemia
11. Speciation - 11.1.1 Allopatric \& Sympatric speciation 11.1.2 Species concept 11.1.3 Sibling species, Polytypic species 11.1.4 Evolutionary species concept
12. Isolation 12.1.1 role of Isolation in speciation 12.1.2 Geographical isolation 2.1.3 Reproductive isolation.

UNIT 9 - CLASSIFICATION OF ANIMALS

1. Salient features of different Phyla with examples. 1.1 General features of animals 1.1.1 Grades of organization and body plan 1.1.2 body symmetry 1.1 .3 germ layers (diploblastic $\mathbb{A}$ triploblastic organization) 1.1.4 segmentation 1.1 .5 coelom 1.1.6 Heterotrophic mode of Nutrition 1.1.7 Movement 1.1.8 Reproduction and Development

Kingdom Protista (Protozoan Protists only) eg: Amoeba, Paramecium, Trypanosoma, Entamoeba, Plasmodium
Phylum Porifera eg: Sycon, Leucosolenia, Spongilla
4. Phylum Cnidaria eg: Hydra, Obelia colony, Physalia, Aurelia, Sea Anemone, Corals
5. Phylum Playhelminthes eg.: Taenia, Fasciola, Planaria

Phylum Nemathelminthes eg: Ascaris, Rhabditis, Wuchereria, Ancylostoma
7. Phylum Annelida eg: Nereis, Aphrodite, Pheretima, Hirudinaria, Chaetopterus, Bonellia
8. Phylum Arthropoda eg: Araneus (Spider), Limulus (King Crab), Bruthus (Scorpion), Eupgurus (Hermit Crab), Penaeus (Marine prawn), Palaemon (fresh water prawn), Lepisma, Apis, Musca (House fly), Mosquito, Leptocorisa (paddy pest), Barnacles, Silk worm, Oryctes
9. Phylum Mollusca eg: Pila, Mussel (fresh water \& marine), Pinctada, Loligo, Octopus, Teredo

Phylum Echinodermata eg: Asterias, Echinus, Antedon, Sea cucumber, Ophiura.
PHYLUM CHORDATA: Subphylum [a]-Hemichordata eg: Balanoglossus Subphylum [b]- Urochordata eg:
Ascidia.. Subphylum [c] - Cephalochordata eg: Amphioxus Subphylum [d]-Vertebrata-Classification up to classes
Super class I. Agnatha. Class - Cyclostomata eg: Petromyzon and Myxine.
Super class II. Gnathostomata Class a - Chondrichthyes (Cartilaginous fishes) eg.: Scoliodon, Trygon, Torpedo (Narcine), Pristis. Class b. Osteichthyes (Bony fishes) eg.: Catla, Anabas, Channa, Exocoetus, Remora, Hippocampus, Tuna, Cybium, Pomfret, Etroplus, Tilapia, Sardine, Mackeral. Class c. Amphibia eg: Bufo, Rana, Hyla, Rhacophorus, Salamander, Amblystoma, lchthyophis Class d. Reptilia eg:
Chelone, Testudo, Sphenodon, Hemidactylus, Chameleon, Calotes, Draco, Phrynosoma, Varanus, Python, Naja, Krait, Viper, Crocodile, Alligator, Gavialis, Crotalus, Enhydrina, Dryophis, Typhlops. Class e. Aves eg: Ardea (Grey Heron), Corvus, Paro, Gallus, Columba, Psittacula, Bubo, Milvus, Struthio (Ostrich), Kiwi, Class f. Mammalia eg: Platypus, Kangaroo, Mole, Bat, Whale, Loris, Macaques, Macaca radiata, Macaca silenus (Lion-tailed monkey) Common Langur, Gorilla, Chimpanzee, Orangutan, Panthera, Elephas.

## UNIT 10 - ANIMAL MORPHOLOGY

1. External and internal morphology 1.1 Earthworm 1.2 Cockroach 1.3 Frog 1.4 Rat.

## UNIT 11 - ANIMAL TISSUES

1. Definition 1.1.1 Types of tissues 1.1.2 Epithelial tissue - different types with examples, specialized epithelial tissue with examples 1.1.3 Connective tissue with examples 1.1.4 Muscular tissue with examples 1.1.5 Nervous tissue with examples 1.1.6 Structure and functions of these tissues.

## UNIT 12 - GENETICS

1. Heredity and variation -1.1.1 Mendel's experiments 1.1.2 Laws of Mendel 1.1.3 Chromosome theory of inheritance 1.1.4 Pattern of inheritance 1.1.5 Incomplete dominance 1.1.6 Epistasis 1.1.7 Multiple allelism 1.1.8 Quantitative inheritance 1.1.9 Pleiotropy
2. Chromosomes 2.1.1 Prokaryotic \& Eukaryotic Chromosomes 2.1.2 Nucleosomes 2.1.3 Chromosome theory of inheritance 2.1.4 Concept of linkage and crossing over recombination 2.1.5 Principle of gene mapping 2.1 .6 sex linked inheritance 2.1 .7 sex determination 2.1 .8 sex limited and sex influenced inheritance.
3. Mutation 3.1 Gene mutation - 3.1.1Chromosomal aberration 3.1.2 Polyploidy, aneuploidy and Euploidy 3.1.3 Mutation causing agents.
4. Human Genetics 4.1 Pedigree Analysis 4.2 Genetic Disorders 4.2.1 Sickle cell anaemia 4.2.2 Phenylketonuria 4.2.3 Alzheimer's disease 4.2.4 Down's Syndrome 4.2.5 Turner's Syndrome 4.2.6 Klinefelter's Syndrome.
5. Nature of Genetic Material 5.1 DNA and its structure 5.1.1 Different types of DNA 5.12 RNA and its structure 5.1.3 Experiments to prove genetic nature of DNA.
6. DNA and Gene 6.1 DNA Replication 6.1.2 Gene expression- Gene and Protein 6.1.3 Biosynthesis of Protein 6.2 Regulation of Gene expression in prokaryotes and eukaryotes- 6.2.1House keeping genes 6.3 Genes in differentiation and development 6.4 Oncogenes.

## UNIT 13 - APPLIED GENETICS

1. Recombinant DNA technology 1.1 Genetic Engineering and its tools 1.1 gene transfer
1.1.2 application of recombinant DNA technology 1.1.3 Gene Library 1.1.4 Medical Diagnosis of diseases.
2. Cloning 2.1 various types of cloning 2.1.1 Microbial cloning 2.1.2 Cell cloning 2.1.3 Plant cloning. 2.1.4 Animal cloning 2.1.5 transgenic organisms (Plant, animals and microbes)
3. Genomics 3.1 Principles and application 3.1.1 Human genome project 3.1.2 DNA Diagnosis 3.1.3 Gene Therapy 3.1.4 DNA finger printing 3.1.5 ethical, legal, social concerns associated with gene manipulations.

UNIT 14 - PHYSIOLOGY OF ANIMALS

1. Nutrition 1.1.1 Different types of nutrition 1.1.2. Different types of nutrients 1.1.3. Malnutrition 1.1. 4. Under nutrition 1.1. 5. Disorders related to nutrition.
2. Digestion 2.1.1. Intracellular and Extracellular digestion with examples. 2.1.2. Digestive system of Cockroach. 2.1.3. Glands associated with the alimentary canal. 2.1.4. Different enzymes secreted by the alimentary canal. 2.1.5. Bacteria involved in the synthesis of enzymes. 2.1.6. Functions of various enzymes. 2.1.7. Role of various regions of alimentary canal in absorption. 2.2. Human Digestive System. 2.2.1. Structure of alimentary canal and associated glands and their secretions. 2.2.2. Buccal cavity and structures associated with it. 2.2.3. Process of ingestion and digestion at various regions of alimentary tract. 2.2.4. Mechanism of absorption and assimilation of digested food components. 2.2.5. Egestion 2.2.6. Role of gastrointestinal hormones in digestion.
3. Respiration 3.1.1. Aerobic Respiration 3.1.2. Anaerobic respiration. 3.2 Respiration in cockroach. 3.2.1. Spiracles and tracheal system 3.2.2 Haemocoel 3.2.3 Mechanism of gas exchange. 3.3 Human Respiratory system. 3.3.1. Respiratory organs and mechanism involved in pulmonary respiration. 3.3.2. Gas exchange and transport of respiratory gases. 3.3.3 Respiratory pigments involved 3.3.4 Regulation of respiration 3.4 Respiratory disorders 3.4.1 Bronchitis 3.4.2 Bronchial Asthma3.4.3 Emphysema 3.4.4 Pneumonia 3.4.5 Occupational lung diseases 3.4.6 Causes of these disorders - symptoms, prevention and cure of these disorders 3.4.7 High altitude problems - mountain sickness, asphyxia and hypoxia 3.5 Carbon Monoxide poisoning.
4. Circulation 4.1.1 Open circulatory system with examples 4.1.2 Closed circulatory system with examples 4.1.3 composition of blood 4.1.4 structure and functions of different types of blood cells. 4.2 Structure and working of heart 4.2.1 pulmonary, systemic and portal circulation 4.2.2 Pulse, heart beat and blood pressure 4.2.3 Rhythmicity of heart 4.2.4 Regulation of heart beat 4.2.5 Blood related disorders - hypertension, atherosclerosis and arteriosclerosis 4.2.6 Echo cardio gram 4.2.7 Pacemaker 4.3 Lymphatic system 4.3.1 Lymph 4.3.2 Lymph node 4.3.3 Lymph vessels 4.3.4 functions of lymph 4.3.5 Lymphoid organs. 4.4 Immunity and immune systems 4.4.1 Immunology 4.4.2 Innate (Non- specific) 4.4.3 Acquired immunity 4.4.4 Active immunity 4.4.5 Passive immunity 4.4.6 Cell mediated immunity 4.4.7 Antibody mediated immunity 4.5 Clonal Selection and Primary and Secondary immune responses 4.6 Immune disorders 4.7 Vaccinisation and Immunization (using traditional vaccines and recent technological vaccines).
5. Excretion. 5.1.1 Definition. 5.1.2 Different types of excretory organs in animals. 5.1.3 Skin, lungs and liver as excretory organs. 5.2 Nitrogenous excretion 5.2.1 Different types of Nitrogenous excretion with examples. 5.2.2. Ammenotelism, ureotelism and uricotelism. 5.3 Excretory system in Cockroch. 5.3.1 Excretory organs-Malphigian tubules and rectum. 5.3.2. Role of Malphigian tubules and rectum in excretion and osmoregulation. 5.4.Excretory system in man .5.4.1 Structure of kidney 5.4.2 Composition and formation of urine 5.4.3 Role of Kidney in osmoregulation 5.4.4 Hormonal regulation of excretory system. 5.4.5 Dialysis.
6. Locomotion and Movement. 6.1.1 Different modes of movement with examples 6.2.1 Human skeleton 6.2.2 Axial and appendicular skeleton. 6.3 Joints 6.3.1 Types of joints with examples 6.4 Bone and cartilage 6.4.1 Structure of Bone and Cartilage 6.4.2 Disordres of bone and cartilage (Arthritis and Osteoporoosis)
7. Muscles.7.1.1 Different types of muscles 7.1.2 Structure of skeletal muscle 7.1.3 Mechanism of muscle contraction 7.1.4 Role of red and white muscles in movement.7.1.5 Role of muscles and bones in movement.
8. Nervous Co-ordination 8.1 Nervous system in cockroach 8.1.1 Morphology of nervous system in cockroach 8.2. Human nervous system 8.2.1 Morphology of functional subsystems of nervous system. 8.2.2 Different types of nerve cells. 8.3 Structure and functions of brain and spinal cord. 8.4 Nerve impulse. 8.4.1 Synapse 8.4.2 Transmission and conduction of nerve impulse 8.5 Reflex action. 8.5.1 Reflex arc 8.6. Sensory receptors. 8.6.1 Structure and functions of eye, ear, nose, tongue and skin.
9. Hormones 9.1 Different types of hormones 9.2 Hormones produced by human endocrine glands and their functions. 9.3 Hormone imbalance and disorders 9.4 Role of hormones as messengers and regulators. 9.5 Feed back control of various hormones.

## UNIT 15 - REPRODUCTION AND DEVELOPMENT IN ANIMALS

1. Reproduction 1.1 Asexual Reproduction. 1.1.1 Different types of asexual reproduction with examples 1.1.2 Sexual reproduction 1.2.1Conjugation,hermaphroditismand parthenogenesis with examples.
1.3 Reproductive organs. 1.3.1 Structure and function of human male and female reproductive system. 1.3.2 Reproductive cycle in human female 1.3.3 Gametogenesis 1.3.4 fertilization (Physical and chemical events) 1.3.5 Development of zygote up to 3 germinal layers and their derivatives.
1.4 Extra embryonic membranes.1.4.1 Structure and functions of placenta
1.5. Growth 1.5.1 Definition 1.5.2 Embryonic, post embryonic and cellular growth. 1.5.3 Types of growth and growth curve 1.5.4. Hormonal control of growth.
1.6 Ageing: 1.6.1 Definition.1.6.2 Life span and life expectancy 1.6.3. Ageing of human organs. 1.6.4 Process of ageing and theories related to ageing 1.6.5. Ageing and death.
1.7 Regeneration 1.7.1 Definition 1.7.2 Regeneration among animals 1.7.3 Types of regeneration. 1.7.4 Factors controlling amphibian limb regeneration.

## UNIT 16 -BIODIVERSITY AND CONSERVATION

1. Biotic resources. 1.1 Terrestrial biotic resources. 1.1.1 forests 1.1.2 Grassland 1.1.3 wild life 1.1.4. Domesticated animals.
1.2 Aquatic biotic resources.1.2.1 Marine biotic resources (animal resources) 1.2.2 fresh water biotic resources.
2. Biodiversity 2.1.1 Definition 2.1.2 Significance of biodiversity 2.1.3 Magnitude of biodiversity 2.1.4 Levels of biodiversity 2.1.5 gradients of biodiversity 2.1.6 Uses of biodiversity 2.1.7 Threats of biodiversity.
3. Endangered species 3.1.1 Extinction 3.1.2 Causes of extinction.
4. Conservation of biodiversity 4.1.1 Biosphere reserves 4.1.2 protected ares 4.1.3 National and international efforts 4.1.4 Role of Government and non-government organizations in conservation of bio-diversity 4.1.5 Environmental ethics 4.1.6 Legislation to conserve biodiversity 4.1.7 Responsibility of individual in biodiversity conservation.

## UNIT 17 - BIOLOGY IN HUMAN WELFARE

1. Population. 1.1.1 Role of environment in population 1.1.2 Role of development in population.
2. Population Growth. 2.1.1 Characteristics of population growth 2.1.2 Factors affecting population growth - Natality, Mortality, Immigration, Age and Sex ratio 2.1.3 Impact of Population growth.
3. Common problems of adolescence 3.1.1 Social and moral implications 3.1.2 Problems associated with drugs, smoking and alcoholism.
4. Population as a resource. 4.1.1 Generation of useful products and services- Intellectual, social, economic and political resources. 4.1.2 Conservation of existing resources.
5. Organ transplantation. 5.1.1. Transplantation of Skin, Kidney, Heart, Liver, Lungs, Cornea, Bone marrow, Blood and Pancreas
6. Modern techniques in disease diagnosis.6.1 AIDS and SCID 6.1.1 Causes 6.1.2 Diagnosis-ELISA, WESTERN BLOT 6.1.3 Treatment. 6.2.1 STD -different types of STD 6.2.2. Causative agents 6.2.3 Diagnosis-Microscopic examination, Gram-staining of discharge, antigen/antibody detection, Culture, DNA hybridization, PCR 6.2.4 Treatment 6.3 Cancer 6.3.1 Types of Cancer 6.3.2 Various causes.6.3.3 DiagnosisBlood test, Histopathology, CT Scan, MRI Scan, X-ray (using injected dyes) 6.3.4 Treatment.
7. Biotechnology.7.1.1. Hormones produced using biotechnology. 7.2. Hormone therapy 7.2.1 Hormone blocking and hormone -Supplementing therapy.
8. Interferon. 8.1.1. Definition 8.1.2. Different types of interferon 8.1.3. Role of interferon in medical treatment
9. Immuno modulations. 9.1. Immunomodulators - different approaches.
I. ENGINEERING COLLEGES UNDER THE DIRECTOR Description of Course Codes on Page No. 65

| Total Seats | Phone No. |
| :---: | :--- |
| 240 | $04862-233250$ |
| 240 | $0495-2383220$ |
| 300 | $0497-2780226$ |
| 300 | $0481-2506153,2507763$ |
| 180 | $0466-2260350,2260565$ |
| 510 | $0487-2334144$ |
| 240 | $0471-2300485$ |
| 593 | $0471-2598370$ |
| 120 | $04935-271261,257320$ |


| Total Seats | Phone No. |
| :---: | :--- |
| 480 | $0485-2822363$ |
| 480 | $0491-2555255$ |
| 500 | $0474-2712022,2712023$, <br> 2712024,2713126 |


| SI. No. | Code | College | University | Branches offered - No. of seats | Total Seats | Phone No. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 13 | CDT | College of Dairy Science \& Technology, Mannuthy, Thrissur | KAU | DS-23 | 23 | 0487-2372861 |
| 14 | KCT | Kelappaji College of Agril. Engineering \& Technology, Tavanur, Malappuram | KAU | AG-46 | 46 | 0494-2686214, 2686009 |

III. SELF-FINANCING COLLEGES UNDER THE INSTITUTE OF HUMAN RESOURCES DEVELOPMENT (IHRD):

| SI. No. | Code | College | University | Branches offered - No. of seats | Total Seats | Phone No. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15 | ADR | College of Engineering, Adoor, Pathanamthitta. | CUSAT | CS-60, EC-120, ME-60 | 240 | 04734-230640, 231995 |
| 16 | CEA | College of Engineering, Attingal, Thiruvananthapuram | CUSAT | CS-60, EC-60 | 120 | 0470-2627400 |
| 17 | CEC | College of Engineering, Pallippuram, Cherthala. | CUSAT | CS-60, EC-60 | 120 | 0478-2553416 |
| 18 | CEK | College of Engineering, Kottarakkara, Kollam. | CUSAT | CS-60, EC-60 | 120 | 0474-2453300 |
| 19 | CHN | College of Engineering, Chengannur, Alappuzha. | CUSAT | CS-90, EC-90 | 180 | O479-2451424, 2454125 |
| 20 | KNP | College of Engineering, Karunagappally, Kollam | CUSAT | CS-30, EC-45, IT-30 | 105 | 0476-2665935, 2080360 |
| 21 | MDL | Model Engineering College, Thrikkakara, Emakulam | CUSAT | BM-60, CS-90, EC-120 | 270 | 0484-2577379, 2575370 |
| 22 | PJR | College of Engineering, Poonjar, Kottayam. | CUSAT | CS-60, EC-60, IT-60 | 180 | O4822-271737 |
| 23 | PTA | College of Engineering, Kallooppara, Pathanamthitta. | CUSAT | CS-60, EC-60, IT-60 | 180 | 0469-2678983, 2677890 |

IV. SELF-FINANCING COLLEGES UNDER THE LAL BAHADUR SASTRI CENTRE FOR SCIENCE \& TECHNOLOGY (LBS)

| SI. No. | Code | College | University | Branches offered - No. of seats | Total Seats | Phone No. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 24 | KSD | LBS College of Engineering, Muliyar P O, Kasaragod. | Kannur | CS-90, EC-90, EE-60, ME-60, IT-60, CE-60 | 420 | 04994-250290, 250555 |
| 25 | LBT | LBS Institute of Technology for Women, Poojappura, Thiruvananthapuram | Kerala | AE-60, CS-120, EC-60, IT-60 | 300 | 0471-2349232, 2343395 |

V. SELF-FINANCING COLLEGES UNDER THE CO-OPERATIVE ACADEMY OF PROFESSIONAL EDUCATION (CAPE):

| SI. No. | Code | College | University | Branches offered - No. of seats | Total Seats | Phone No. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 26 | KGR | College of Engineering, Kidangoor, Kottayam | CUSAT | CS-60, EC-60, El-60, EE-60, IT-45 | 285 | 04822-255056, 256056 |
| 27 | PRN | College of Engineering, Perumon, Kollam | CUSAT | CS-60, EC-120, EE-60, IT-60 | 300 | 0474-2550400, 2550500 |
| 28 | PRP | College of Engineering \& Management, Punnapra, Alappuzha | Kerala | CS-60, EC-60, EE-60, IT-60 | 240 | 0477-2267311, 2266711 |
| 29 | TKR | College of Engineering, Trikarpur, Kasaragod. | CUSAT | CS-60, EC-60, EE-60, IT-30 | 210 | 0467-2250750, 2250377 |
| 30 | TLY | College of Engineering, Thalassery, Kannur. | CUSAT | CS-60, EC-120, ME-60, EE-60, IT-60 | 360 | 0490-2307190 |
| 31 | VDA | Co-operative Institute of Technology, Vadakara, Kozhikode. | CUSAT | CS-60, EC-60, E-60, IT-60 | 240 | 0496-2536125, 2537225 |

VI. SELF-FINANCING COLLEGE UNDER THE KSRTC:

| SI. No. | Code | College | University | Branches offered - No. of seats | Total Seats | Phone No. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 32 | SCT | Sree ChitraThirunal College of Engineering, Pappanamcode, Thiruvananthapuram | Kerala | BT-60, CS-60, EC-120, MA-60, MP-60, ME-60 | 420 | 0471-2490572 |
| SELF-FINANCING COLLEGE UNDER THE MAHATMA GANDHI UNIVERSITY: |  |  |  |  |  |  |
| Sl. No. | Code | College | University | Branches offered-No. of seats | Total Seats | Phone No. |
| 33 | UCE | University College of Engineering, Thodupuzha, Idukk. | MG | CS-60, EC-60, EE-60, IT-60, PO-60 | 300 | 04862-256222, 256534 |

VIII. SELF-FINANCING COLLEGE UNDER THE UNIVERSITY OF KERALA:

| Sl. No. | Code | College | University | Branches offered - No. of seats | Total Seats | Phone No. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 34 | UCK | University College of Engineering, Kariavattom, Thirwananthapuram. | Kerala | CS-60, EC-60, IT-60 | 180 | $0471-2417574,2418045$ |

IX. SELF-FINANCING COLLEGE UNDER THE UNIVERSITY OF CALICUT:

| Sl. No. | Code | College | University | Branches offered- No. of seats | Total Seats | Phone No. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 35 | UCC | Calicut University Institute of Engineering \& Technology, Tenhipalam, <br> Malappuram | Calicut | EC-60, EE-60, IT-60, ME-60, PT-30 | 270 | 0494-2400223 |

X. SELF-FINANCING COLLEGE UNDER THE CENTRE FOR CONTINUING EDUCATION (CCE):

| Sl. No. | Code | College | University | Branches offered - No. of seats | Total Seats | Phone No. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 36 | MNR | College of Engineering, Munnar, Idukki. | CUSAT | CS-60, EC-60, EE-60 | 180 | 04865-230606, 232989 |

XI. PRIVATE SELF FINANCING COLLEGES:

| SI. No. | Code | College | University | Branches offered - No. of seats | Total Seats | Phone No. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 37 | AAP | A-Ameen Engineering College, Shoranur, Palakkad. | Calicut | CE-60, EC-120, EE-60, ME-60 | 300 | 0466-2221133, 2221457, 3200033 |
| 38 | ASI | Adi Shankara Institute of Engineering \& Technology, Kalady, Emakulam | MG | AE-60, CS-60, EC-120, EE-60, IT-60, ME-60 | 420 | 0484-2463825 |
| 39 | AWH | AMH Engineering College, Kuttikkattoor, Kozhikkode. | Calicut | CE-60, CS-60, EC-120, IT-60, EE-60, ME-60 | 420 | 0495-2356144 |
| 40 | BMC | Baselios Mathews II College of Engineering, Sasthamcotta, Kollam. | Kerala | CS-60, EC-60, E-60, EE-60, CE-60 | 300 | 0476-2835579 |
| 41 | CML | Caarmel Engineering College, Perunad, Pathanamthitta. | MG | CE-60, CS-60, EC-60, EE-60, IT-60, ME-60 | 360 | 04735-240990/1/2/3 |
| 42 | FIT | Federal Institute of Science \& Technology, Angamaly, Ernakulam | MG | CS-120, EC-120, Ex-60, E-60 | 360 | 0484-2616267, 2616404, 2616406 |
| 43 | ICE | Ilahia College of Engineering \& Technology, Muattupuzha, Ernakulam. | MG | CE-60, CS-60, EC-60, EE-60, IT-60, ME-60 | 360 | 0485-2549145, 2549647, 2549646 |
| 44 | IES | IES College of Engineering, Chittilappilly, Thrissur. | Calicut | AE-60, CE-60, Cs-60, EC-60, EE-60, ME-60 | 360 | 0487-2309966, 2309967 |
| 45 | JCE | Jawaharlal College of Engineering \& Technology, Lakkidi, Mangalam, Palakkad | Calicut | CS-60, EC-60, ME-60, AO-60 | 240 | 04662-405070, 231550 |
| 46 | KMC | KMCT College of Engineering., Mukkam, Kozhikode. | Calicut | AE-60, AU-60, CS-60, EC-120, IT-60, ME-60 | 420 | 0495-2289227, 2295395 |
| 47 | KME | KMEA Engineering College, Edathala, Allva, Emakulam | MG | CS-60, EC-60, E-60, IT-60, CE-60 | 300 | 0484-2411003, 2411004, 2411005 |
| 48 | MBC | Mar Baselios Christian College of Engineering \& Tech., Peermade, Idukki. | MG | AE-60, CS-60, EC-120, EE-60, ME-60 | 360 | 04869-233571, 233572 |
| 49 | MCK | Musaliar College of Engineering \& Technology, Kumbazha, Pathanamthitta. | MG | CE-60, Cs-60, EC-90, ME-60, EE-60 | 330 | 0468-2301702, 2301703 |
| 50 | MCT | Mohandas College of Engineering \& Technology, Nedumangadu, Thiruananthapuram | Kerala | BT-60, CS-60, EC-60, IT-60, EE-60, ME-60 | 360 | 0472-2813039, 2814578, 2802552 |
| 51 | MEA | MEA Engineering College, Perinthalmanna, Malappuram | Calicut | CS-120, EC-120, EE-60, IT-60, ME-60 | 420 | 04933-277556/7/8 |
| 52 | MES | MES College of Engineering, Kuttippuram, Malappuram | Calicut | AE-60,AR-40, CE-40, CS-120,EC-120,EE-60,IT-60,ME-60 | 560 | 0494-3051234 |
| 53 | MET | MET's School of Engineering, Mala, Thrissur. | Calicut | BT-60, CS-60, EC-60, EE-60 | 240 | 0480-2897337, 2898035 |
| 54 | MGC | M.G. College of Engineering, Thiruvallam, Thiruvananthapuram | CUSAT | CS-60, EC-60, EE-60, IT-60 | 240 | 0471-2383747, 2383185, 2381517 |
| 55 | MGP | Saintgits College of Engineering, Pathamuttom, Kottayam | MG | AE-60, CE-60, CS-60, EC-60, EE-60, ME-120 | 420 | 0481-2430349, 2436169, 2436170 |
| 56 | MLM | Mangalam College of Engineering, Ettumanoor, Kottayam. | MG | CS-60, EC-90, EE-60, IT-30, ME-60 | 300 | 0471-2533711 |
| 57 | MMO | Mary Matha College of Engg. \& Technology, Neyyattinkara, Thir wananthapuram | Kerala | CE-60, CS-60, EC-60, EE-60, ME-60 | 300 | 0471-2256766, 2257161 |
| 58 | MTA | Matha College of Technology, North Paravur, Ernakulam | MG | AU-60, CS-90, EC-90, IT-60 | 300 | 0484-2672291 |
| 59 | MUS | Muslim Association College of Engineering, Venjaramoodu, Thiruvananthapuram | Kerala | CS-60, EC-60, EE-60, IT-60, ME-60 | 300 | 0472-2870786, 2871786, 2875274 |
| 60 | MZC | Mount Zion College of Engineering, Kadarmmanitta, Pathanamthitta. | MG | AE-60, CS-120, EC-120, IT-60 | 360 | 0468-2216325 |


| St. No. | Code | College | University | Branches offered - No. of seats | Total Seats | Phone No. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 61 | NCE | Nehru College of Engineering \& Research Centre, Pampady, Thrissur. | Calicut | AU-60, CS-60, EC-120, IT-60, ME-60, EE-60 | 420 | 04884-283484, 281670 |
| 62 | PAA | P.A. Aziz College of Engineering \& Tech., Karakulam, Thirwananthapuram | Kerala | AE-60, CE-60, CS-60, EC-60, ME-60, EE-60 | 360 | 0471-2370110, 112, 113, |
| 63 | RCE | Royal College of Engineering \& Technology, Akkikavu, Thrissur. | Calicut | AE-60, CE-60, Cs-60, EC-60 | 240 | 04885-289009, 271121, 271122 |
| 64 | SBC | Sree Buddha College of Engineering, Pattoor P O, Padanilam via, Alappuzha. | Kerala | BT-60, CS-60, EC-60, EE-60, ME-60, CE-60 | 360 | 0479-2375440 / 42 / 43 |
| 65 | SCM | SCMS School of Engineering \& Technology, Karukutty, Emakulam | MG | AU-60, CE-60, CS-60, EC-60, EE-60, ME-120 | 420 | 0484-2451907, 2450330, 2450601, 2450507 |
| 66 | SHM | Shahul Hameed Memorial Engineering College, Kadakkal, Kollam. | Kerala | CS-60, EC-60, EE-60, IT-60, ME-60 | 300 | 0474-2424573, 2424900 |
| 67 | SIT | Sarabhai Institute of Science \& Technology, Vellanad, Thiruvananthapuram | OUSAT | AE-60, CE-60, CS-90, EC-60, EE-60, ME-60 | 390 | 0472-2884341, 2884449, 2884448 |
| 68 | SNC | Sree Narayana Guru College of Engineering \& Tech., Payyanur, Kannur. | Kannur | CS-60, EC-60, Ex-60, ME-60 | 240 | 04985-201987, 201988, 201989 |
| 69 | SNG | Sree Narayana Gurukulam College of Engineering, Kolencherry, Ernakulam | MG | CS-90, EC-120, EE-60, ME-90, CE-60 | 420 | 0484-2764841, 2760887 |
| 70 | SNM | SN M Institute of Management \& Technology, Maliankara, Ernakulam. | MG | CS-60, EC-60, EE-60, IC-60, ME-60 | 300 | 0484-2484142, 2484144 |
| 71 | TEC | Travancore Engineering College, Oyoor, Ayoor, Kollam. | Kerala | CS-60, EC-60, EE-60, ME-60, CE-60 | 300 | 0474-2467235, 2466334 |
| 72 | TKI | TKM Institute of Technology, Ezhukone, Kollam. | CUSAT | AE-60, BM-60, CS-60, EC-60, FT-60, IT-60 | 360 | 0474-2482833, 2482083 |
| 73 | TOC | Toc H Institute of Science \& Technology, Arakkunnam, Emakulam | CUSAT | CS-60, EC-120, EE-60, IT-60, ME-60, CE-60 | 420 | 0484-2748388, 2749600 |
| 74 | VAS | Vidya Academy of Science \& Technology, Thalakkottukara, Thrissur. | Calicut | CS-60, EC-60, EE-60, ME-60, CE-60, PP-60 | 360 | 04885-287751, 287752 |
| 75 | WT | Veda Vyasa Institute of Technology, Ponnempadam, Malappuram | Calicut | AE-60, CS-60, EC-60, EE-60 | 240 | 0483-2832154, 2832157 |
| 76 | YCE | Younus College of Engineering \& Technology, Vadakkevila, Kollam | Kerala | CE-60, CS-60, EC-120, EE-60, IT-60, ME-60 | 420 | 0474-2724305, 2724131, 2726072 |

Note: (i) The list is not final. The final list of institutions/branches will be shown in the Information Brochure to be published before the Centralised Allotment Process, 2009. Note : (ii) Allotments to all Colleges/Courses will be subject to approval of Central Regulatory Bodies/Government of India/Kerala and affiliation of the concerned University.
** Allotments from the State Rank List to Self- financing Colleges will be subject to Clause 1.6. and 2.1.1

* DESCRIPTION OF COURSE CODES

| SI. <br> No. | Branch <br> Code | Name of Branch | SI. <br> No. | Branch <br> Code | Name of Branch | SI. <br> No. | Branch <br> Code | Name of Branch |
| :---: | :---: | :--- | :---: | :---: | :--- | :---: | :---: | :--- |
| 1 | AE |  <br> Instrumentation | 9 | CH | Chemical Engg. | 17 | IE | Industrial Engg. |
| 2 | AG | B.Tech. (Agrl. Engg.) | 10 | CS | Computer Sc. \& Engg. | 18 | IT | Information Technology. |
| 3 | AO | Aeronautical Engg | 11 | DS | Dairy Science \& Tech. | 19 | MA | Mechanical (Automobile). |
| 4 | AR | Architecture | 12 | EC | Đectronics \& Commn. | 20 | ME | Mechanical Engg. |
| 5 | AU | Automobile Engg. | 13 | EE | Đectrical \& Eectronics | 21 | MP | Mechanical (Prodn. Engg.) |
| 6 | BM | Bio Medical Engg. | 14 | 日 | Đectronics \& Instrumentation | 22 | PO | Polymer Engg. |
| 7 | BT | Bio-Technology | 15 | FT | Food Technology | 23 | PP | Production Plant Engg. |
| 8 | CE | Civil Engg. | 16 | IC | Instrumentation \& Control Engg. | 24 | PT | Printing Technology |

## ANNEXURE-II(2) ENGINEERING COURSES

DISTRIBUTION OF SEATS UNDER SPECIAL RESERVATION CATEGORIES*
[See clause 1.6, 4.1.9,4.1.10, 5.2 and 5.2 (vii)]
[Details of college codes is given in Annexure - II (1). Details of category codes are available at the end of this Annexure]

| College | Course | SPECIAL RESERVATION CATEGORIES (GOVTIAIDED) |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | G | RQ | CC | SP | Xs | SD | DK | RP | $\mathrm{A}^{\text {\# }}$ | J $\mathbf{W}^{\boldsymbol{F}}$ | SG | TOTAL |
| CDT | DS |  |  |  | 1 |  |  |  |  |  |  |  | 1 |
| IDK | CS |  |  | 1 |  |  |  |  |  |  |  |  | 1 |
|  | EC |  |  | 1 | 1 |  |  |  |  |  |  |  | 2 |
|  | IT |  |  | 1 | 2 |  |  |  |  |  |  |  | 3 |
| KCT | AG |  |  |  | 1 |  | 1 |  |  |  |  |  | 2 |
| KKE | AE |  |  | 1 |  |  | 1 |  |  |  |  |  | 2 |
|  | CH |  |  |  |  |  | 1 |  |  |  |  |  | 1 |
| KNR | CE | 2 | 1 |  |  |  |  |  |  |  |  |  | 3 |
|  | CS |  |  | 1 | 1 |  |  |  |  |  |  |  | 2 |
|  | EC |  |  | 1 |  |  |  |  |  |  |  |  | 1 |
|  | EE | 2 |  | 1 |  |  | 1 |  |  |  |  |  | 4 |
|  | ME |  |  |  |  |  | 1 |  |  |  |  |  | 1 |
| KTE | CE | 2 |  | 1 |  |  |  |  |  |  |  | 1 | 4 |
|  | CS |  |  | 1 |  |  |  |  |  |  |  |  | 1 |
|  | EC |  |  | 1 |  |  | 1 |  |  |  |  |  | 2 |
|  | EE | 3 |  |  | 1 |  |  |  |  |  |  |  | 4 |
|  | ME |  |  |  |  |  |  | 1 |  |  |  |  | 1 |
| MAC | CE | 4 |  |  |  |  |  |  |  |  |  |  | 4 |
|  | CS |  |  | 1 |  |  |  |  |  |  |  |  | 1 |
|  | EC |  |  | 1 | 1 |  |  |  |  |  |  |  | 2 |
|  | EE | 4 | 1 |  |  | 1 |  | 1 |  |  |  |  | 7 |
|  | ME | 2 |  | 1 |  | 1 | 1 |  |  |  | 1 |  | 6 |
| NSS | CE | 4 |  |  |  |  |  |  |  |  |  |  | 4 |
|  | CS |  |  |  |  | 1 |  |  |  |  |  | 1 | 2 |
|  | EC | 1 |  | 1 | 1 |  |  |  |  |  |  |  | 3 |
|  | EE |  |  |  | 1 |  |  |  |  |  |  |  | 1 |
|  | IC | 3 |  | 1 |  |  |  |  |  |  |  |  | 4 |
|  | ME | 3 |  |  |  | 1 | 1 |  |  |  |  |  | 5 |
| PKD | CS |  |  |  |  |  | 1 |  |  |  |  |  | 1 |
|  | EC |  |  | 1 | 1 |  |  |  |  |  |  |  | 2 |
|  | IT |  |  | 2 | 1 |  |  | 1 |  |  |  |  | 4 |
| TCR | CE | 4 |  |  |  | 1 | 1 | 1 |  |  |  |  | 7 |
|  | CH | 4 |  | 1 |  |  |  |  |  |  |  |  | 5 |
|  | CS |  |  | 1 |  |  |  |  |  |  |  |  | 1 |
|  | EC | 1 |  |  | 1 |  |  |  |  |  |  |  | 2 |
|  | EE | 4 |  |  |  |  |  |  |  |  |  |  | 4 |
|  | ME |  | 1 |  | 1 |  |  |  |  |  |  |  | 2 |
|  | PP | 2 |  | 1 |  |  |  |  |  |  |  |  | 3 |

(Continued)

## ENGINEERING COURSES

 DISTRIBUTION OF SEATS UNDER SPECIAL RESERVATION CATEGORIES (Contd...)| College | Course | SPECIAL RESERVATION CATEGORIES (GOVTIAIDED) |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | GI | RQ | CC | SP | XS | SD | DK | RP | Al | JW | SG | TOTAL |
| TKM | AR | 2 |  |  |  |  |  |  |  |  |  |  | 2 |
|  | CE | 6 |  |  |  |  | 1 |  |  |  |  |  | 7 |
|  | CH | 2 |  |  |  |  |  |  | 1 |  |  |  | 3 |
|  | CS | 2 |  | 1 |  |  |  |  | 1 |  |  |  | 4 |
|  | EC | 4 |  |  | 1 |  |  | 1 |  |  |  |  | 6 |
|  | EE | 4 | 1 |  |  |  | 1 |  | 1 |  |  |  | 7 |
|  | ME | 2 |  | 1 |  |  |  |  |  |  |  |  | 3 |
|  | MP |  |  |  | 1 |  |  |  |  |  |  |  | 1 |
| TRV | EC |  |  | 1 |  |  |  |  |  |  |  |  | 1 |
|  | IT |  |  | 1 | 1 |  | 1 |  |  |  |  |  | 3 |
| TVE | AE | 2 |  |  |  |  |  |  |  |  |  |  | 2 |
|  | AR | 3 |  | 1 |  |  | 1 |  |  |  |  |  | 5 |
|  | CE | 4 | 1 | 1 | 1 | 1 | 1 |  | 1 |  |  |  | 10 |
|  | CS | 2 |  | 1 |  |  |  |  |  |  |  |  | 3 |
|  | EC |  |  |  |  |  |  |  |  | 1 |  |  | 1 |
|  | EE | 2 |  |  | 1 | 1 | 1 |  |  |  |  |  | 5 |
|  | IE | 1 |  | 1 |  |  |  |  |  |  |  |  | 2 |
|  | ME | 6 | 1 |  |  |  |  |  | 1 |  |  |  | 8 |
| WYD | CS |  |  |  | 1 |  |  | 1 |  |  |  |  | 2 |
|  | EC |  |  | 1 |  |  |  |  |  |  |  |  | 1 |
| College | Course | GOVT. SPONSORED SELF RNANCING COUFGES |  |  |  |  |  |  |  |  |  |  |  |
|  |  | GI | RQ | CC | SP | XS | SD | DK | RP | A | JW | SG | TOTAL |
| ADR | ME | 3 |  |  |  |  |  |  |  |  |  |  | 3 |
|  | EC | 4 |  |  |  |  |  |  |  |  |  |  | 4 |
| MDL | CS | 4 |  |  |  |  |  |  |  |  |  |  | 4 |
| SCT | EC | 3 |  |  |  |  |  |  |  |  |  |  | 3 |
| TOTAL |  | 101 | 6 | 30 | 20 | 7 | 16 | 6 | 5 | 1 | 1 | 2 | 195 |

## SPECIAL RESERVATION IN SEIF RNANCING COUEGES*

Seats in Self financing colleges will be notified separately.
\# If no candidate is available in JW category, the seat will go to AI category and vice-versa.

## CATEGORY CODES

| Code | Category | Code | Category |
| :---: | :--- | :---: | :--- |
| $\mathbf{G}$ | Government of India nominees | DK | Defence killed/missing/disabled |
| RQ | Reciprocal Quota | RP | CRPF, etc |
| CC | NCC Quota | Al | Anglo Indian |
| SP | Sports Quota | JW | Jews. |
| XS | Children of Ex-service men | SG | Scouts and Guides |
| SD | Serving Defence personnel |  |  |

ANNEXURE- III (1)
COUEGES UNDER MEDICAL STREAMS
(MBBS, BDS)
(See Clause 1.6, 2, 2
(See Clause 1.6, 2, 2.5.2)

1. Government Medical Colleges (MBBS Code: MM)

| Sl. No. | Code | College | University | Total Seats | Phone No. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | ALP | TDMedical College, Alappuzha | Kerala | 150 | 0477-2282015, 2282611 |
| 2 | KKM | Govt. Medical College, Kozhikode | Calicut | 200 | 0495-2356532 |
| 3 | KTM | Medical College, Kottayam | MG | 150 | 0481-2597279 |
| 4 | TCM | Govt. Medical College, Thrissur | Calicut | 150 | 0487-2201355 |
| 5 | TVM | Govt. Medical College, Thiruvananthapuram | Kerala | 200 | 0471-2443095, 2444205, 2528383 |
| 2. Self financing Medical Colleges (MBBS Code : MM) |  |  |  |  |  |
| Sl. No. | Code | College | University | Total Seats | Phone No. |
| 1 | CMC | Co-operative Medical College, Kochi, Kalamassery | CUSAT | 100 | 0484-2411460 |
| 2 | EMC | MES Medical College, Perinthalmanna, Malappuram | Calicut | 100 | 04933-258300, 258305 |
| 3 | GMC | Sree Gokulam Medical College \& Research Foundation, Venjaramoodu, Thiruvananthapuram | Kerala | 50 | 0472-3041234 |
| 4 | KMM | Karuna Medical College, Vilayodi, Palakkad | Calicut | 100 | 04923-221790 |
| 5 | KNC | Kannur Medical College, Kannur | Kannur | 100 | 0497-2855000, 2855001 |
| 6 | KNM | Academy of Medical Sciences, Pariyaram, Kannur | Kannur | 100 | 0497-2808111 (10 lines) |
| 7 | SMC | Dr. Somervell Memorial CSI Medical College, Karakonam, Thiruvananthapuram | Kerala | 100 | 0471-2250233, 2250506 |
| 8 | SUC | SUT Academy of Medical Sciences, Vattappara, Thiruvananthapuram | Kerala | 100 | 0472-2587575, 2586936 |
| 9 | AZC | Azeezia Institute of Medical Sciences \& Research, Meeyyannoor P O, Kollam | Kerala | 100 | 0474-3069420 |
| 10 | KCM | KMCT Medical College, Mukkom, Kozhikode | Calicut | 100 | 0495-2367442, 43,44, 4077555 |

[^0]| SI. No. | Code | College | University | Total Seats |  |
| :---: | :---: | :--- | :---: | :---: | :---: |
| 1 | KKD | Govt. Dental College, Kozhikode | Calicut | 50 | $0495-2356781$ |
| 2 | KTD | Govt. Dental College, Kottayam | MG | 50 | $0481-2594046$ |
| 3 | TVD | Govt. Dental College, Thin |  |  |  |

4. Self financing Dental Colleges (BDS Code: MD)

| University | Total Seats | Phone No. |
| :---: | :---: | :--- |
| MG | 50 | $04862-224366$ |
| MG | 40 | $0485-2815217,2815917$ |
| Kerala | 40 | $0474-2461541$ |
| Kannur | 100 | $0467-2237600 / 200$ |
| Calicut | 50 | $0483-2708353,2705602,2705603$ |
| MG | 50 | $0485-6451630,6451631$ |
| Kannur | 50 | $0497-2855010,2855000-1-2$ Extn. 3000, 3002 |
| Calicut | 50 | $0495-2290690,2290693$ |
| Kannur | 60 | $0497-2808127$ |
| MG | 60 | $0485-2823985,2823740$ |
| Calicut | 50 | $04933-258400$ |
| Calicut | 50 | $0494-2697020,2697021,2697022$ |
| Kerala | 50 | $0471-2223542,2226513$ |
| Kerala | 40 | $0472-2587878$ |
| Calicut | 50 | $0488-5289991$ |
| Calicut | 60 | $0466-2255131,132,133$ |
| MG | 40 | $0485-2572529,530,531$ |
| Kerala | 50 | $0470-3207085,3206245,2795016$ |

The list is not final. The final list of courses/institutions will be published before the Allotment Process.
Note: Allotments to all Colleges/Courses will be subject to approval of Central Regulatory Bodies/Government of India/Kerala and affiliation of the concerned University.

* Allotments from the State Rank List to Self- financing Colleges will be subject to Clause 1.6 and 2.2
DESCRIPTION OF COURSE CODES

| SI. No. | Course Code | Name of Course | SI. No. | Course Code | Name of Course |
| :---: | :---: | :--- | :---: | :---: | :--- |
| 1 | AA | BSC. Hons. (Agriculture) | 6 | BS | B.S.M.S |
| 2 | AF | BFSC. | 7 | FR | BSC. Hons. (Forestry) |
| 3 | AV | BVSC. \&AH | 8 | MD | B.D.S |
| 4 | BA | B.A.M.S | 9 | MM | M.B.B.S |
| 5 | BH | B.H.MS |  |  |  |

SEATS UNDER ALL INDIA QUOTA, NOMIEES, SPECIAL RESERVATION CATEGORIES*
[See Clause 1.6, 2.1.1, 4.1.11(a), 4.1.11(b), 5.2]

| Government Colleges | MBES |  |  |  |  |  | BDS |  |  |  | $\begin{aligned} & \text { Grand } \\ & \text { Total } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\sum_{k}$ | $\frac{\square}{4}$ | $\sum_{\underline{k}}$ | $\sum_{i}$ | $\sum_{\substack{x}}$ | 든 | $\underset{Z}{2}$ | 은 | 立 | 든 |  |
| Ex-Servicemen Quota (XS) | 1 |  | 1 | 1 | 1 | 4 |  |  |  |  | 4 |
| Defence Killed in Action (DK) | 1 |  | 1 | 1 | 1 | 4 | 1 |  |  | 1 | 5 |
| Serving Defence Quota (SD) | 1 |  |  |  |  | 1 |  |  |  |  | 1 |
| Dependents of Paramilitary Personnel (RP) |  |  |  |  |  |  |  |  |  |  | 0 |
| Anglo Indian Community (A) |  |  | 1 |  |  | 1 |  | 1 |  | 1 | 2 |
| Holders of Degree/Diploma in Ayurveda (DA) | 1 |  | 1 | 1 | 1 | 4 |  |  |  |  | 4 |
| Holders of Deg/Diploma in Homeopathy (DH) | 1 | 1 |  | 1 | 1 | 4 |  |  |  |  | 4 |
| Nurses Quota (NQ) |  |  |  |  | 1 | 1 |  |  |  |  | 1 |
| Sports Quota (SP) | 1 | 1 | 1 | 1 | 1 | 5 |  |  | 1 | 1 | 6 |
| NCC Quota (CC) |  | 1 |  | 1 |  | 2 |  | 1 |  | 1 | 3 |
| All Incia Quota | 30 | 23 | 22 | 22 | 30 | 127 | 6 | 6 | 6 | 18 | 145 |
| Government of India Nominees | 5 | 5 | 5 | 4 | 5 | 24 | 1 |  | 1 | 2 | 26 |
| Government of Puducherry Nominee | 1 |  |  |  | 1 | 2 |  |  |  |  | 2 |
| Kerala origin settled in Union Territory of Andaman \& Nicobar Islands | 1 |  |  |  |  | 1 |  |  |  |  | 1 |
| Union Territory of Andaman \& Nicobar Islands Nominee |  |  |  |  |  |  |  |  |  |  | 0 |
| Kerala origin settled in Lakshadeep |  |  |  |  | 1 | 1 |  |  |  |  | 1 |
| Lakshadeep Nominees |  |  |  |  |  |  |  |  |  |  | 0 |
| Jammu \& Kashmir Nominees |  | 1 |  |  |  | 1 |  |  |  |  | 1 |
| TOTAL | 43 | 32 | 32 | 32 | 43 | 182 | 8 | 8 | 8 | 24 | 206 |
| SPECIAL RESERVATION IN SEL F RNANCING COUEGES WLL BE NOTIFIED SEPARATELY |  |  |  |  |  |  |  |  |  |  |  |

# ANNEXURE - III (3) <br> CATEGORIES OF CANDIDATE(S) ENTITLED TO CENTRAL GOVERNMENT RESERVED SEATS FOR ADMISSION TO MBBS / BDS COURSES AND THE AUTHORITIES CONCERNED 

[See Clause 5.1]

| SI. <br> No. | Category | Authority concerned |  |
| :--- | :--- | :--- | :--- |
| 1 | Students belonging to States / Union <br> Territories with no Medica//Dental College. | Health Secretary, <br> State/Union Territory <br> Government. | Higher Education Secretary, <br>  <br> Kashmir |
| 2 | Wards of Defence Personnel | Liaison Officer, Kendriya Sainik Board, Ministry of Defence, <br> West block - IV, Wing No. 5, R.K. Puram, New Delhi - 110 066 |  |
| 3 | Children of Para-Military Personnel: <br> (i) For CRPF/BSF, etc Personnel. | Ministry of Home Affairs, FP-I Section, North Block, New Delhi - 110001 |  |
|  | (ii) For SSB/B\&AN/SFF/APC Personnel. | Cabinet Secretariat; EA-II Section, Bikaner House (Annexure), <br> Shahjahan Road, New Delhi - 110 011 |  |
|  | Children of India based Staff serving in <br> Indian Missions abroad. | Ministry of External Affairs, Welfare Cell, Akbar Bhavan, <br> Chanakyapuri, New Delhi - 110 021. |  |
| 5 | For meeting diplomatic/ bilateral <br> commitments. | Ministry of External Affairs, Student Cell, Akbar Bhavan, <br> Chanakyapuri, New Delhi - 110 021. |  |
| 6 | Tibetan Refugees | Ministry of Human Resource Development, Department of Education, <br> UT-2 Section, A-2/W-4, Curzon Road, Barracks, New Delhi-110 001 |  |
| 7 | National Bravery Award winning children. | Indian Council for Child Welfare, 4- Deen Dayal Upadhyay Marg, <br> New Delhi - 110 002. |  |

## ANNEXURE - IV (1) GOVERNMENT/AIDED HOMOEO MEDICAL COLLEGES COURSE : BHMS [CODE 'BH'] <br> (See Clause 2.5.2)

| Sl. No. | Code | Government Homoeopathic Medical Colleges* | University | Total | Phone No. |
| :---: | :---: | :--- | :---: | :---: | :---: |
| 1 | KKH | Government Homoeopathic Medical College, <br> Karaparamba P O, Kozhikode-10. | Calicut | 50 | 0495 <br> 2370883 |
| 2 | TVH | Government Homoeopathic Medical College, Iranimuttam, <br> Manacaud P O, Thiruvananthapuram-695009 | Kerala | 50 | 0471 <br> 2459459 |
| 3 | EKH | Dr. Padiyar Memorial Homoeopathic Medical College, <br> Chottanikkara P.O., Ernakulam. | MG | 50 | 0484 <br> 2711030 |
| 4 | KTH | Athurasramam NSS Homoeopathic Medical College, Sachivothamapuram PO, <br> Kottayam. | MG | 50 | 0481 <br> 2430729 |
| 5 | NEH | Sree Vidhyadhiraja Homoeopathic Medical College, <br> Nemom, Thiruvananthapuram. | Kerala | 50 | 0471 <br> 2391213 |

The list is not final. The final list of Institutions will be published before the Allotment Process.

## ANNEXURE - IV (2) <br> HOMOEOPATHY (BHMS) DEGREE COURSE <br> SPECIAL RESERVATION SEATS IN HOMOEO MEDICAL COLLEGES

(See Clause 4.1.12, 5.1, 5.2)

| SI. No. | Category | TVH | NEH | KKH | KTH | EKH | Total |
| :---: | :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Himachal Pradesh Nominee | 1 | - | - | - | - | 1 |
| 2 | Lakshadweep nominee | - | - | 1 | - | - | 1 |
| 3 | Sports quota | 1 | - | 1 | - | - | 2 |
| 4 | NCC quota | 1 | - | 1 | - | - | 2 |
| 5 | Ex-Service men Quota | 1 | - | - | - | - | 1 |
| 6 | Serving Defence Quota | 1 | - | - | - | - | 1 |
| 7 | Nurses quota (Homoeo) | - | - | 1 | - | - | 1 |
| 8 | Management quota | - | 7 | - | 8 | 7 | 22 |
| 9 | For MBBS / BAMS / BVSc / <br> Agriculture/Fisheries/Forestry | $\mathbf{1}$ | - | - | - | - | 1 |
| Total |  | $\mathbf{6}$ | $\mathbf{7}$ | $\mathbf{4}$ | $\mathbf{8}$ | $\mathbf{7}$ | $\mathbf{3 2}$ |

ANNEXURE - V (1)
AYURVEDA MEDICAL COLLEGES
COURSE : BAMS [CODE 'BA']
(See Clause 2.5.2)

| SI.No. | Code | Government Ayurveda Colleges | University | Total | Phone No |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | KNA | Government Ayurveda College, Medical College P O, Pariyaram, Kannur- 670503 | Kannur | 40 | 04972800167 |
| 2 | TPA | Government Ayurveda College, Dhanwanthari Nagar, Tripunithura, Ernakulam - 682301 | MG | 50 | 04842777374 |
| 3 | TVA | Government Ayurveda College, G P O, Thiruvananthapuram- 695001 | Kerala | 70 | 04712460190 |
| Aided Ayurveda Colleges |  |  |  |  |  |
| 4 | KTL | VPSV Ayurveda College, Edarikode P O, Kottakkal, Malappuram | Calicut | 50 | 04832751851 |
| 5 | OLR | Vaidyaretnam Ayurveda College, Thaikkattussery P O, Ollur, Thrissur | Calicut | 40 | 04872352503 |
| Self financing Ayurveda Colleges* |  |  |  |  |  |
| 1 | KMA | KMCT Ayurveda Medical College, Manasseri P O, Mukkom, Kozhikode - 673602 | Calicut | 50 | 04952294664 |
| 2 | MAM | Mannam Ayurved Cooperative Medical College, Pandalam, Pathanamthitta - 689501 | Kerala | 50 | 04734252235 |
| 3 | NGL | Nangelil Ayurveda Medical College, Kothamangalam, Nellikuzhy P O, Kothamangalam, Ernakulam | MG | 40 | 04852851115 |
| 4 | PKJ | Pankaja Kasthuri Ayurveda Medical College, Kattakada P O, Thiruvananthapuram | Kerala | 50 | 04712293808 |
| 5 | PNA | PNNM Ayurveda Medical College, Cheruthuruthy P O, Shoranur, Thrissur - 679531 | Calicut | 50 | 04884264411 |
| 6 | PPA | P N Panicker Souhruda Ayrveda Medical College, Parakalai P O, Anandhashram via, Kasargode | Kannur | 50 | 04672244700 |
| 7 | PRK | Parassinikkadavu Ayurveda Medical College, <br> Parassinikadavu P O, Kannur- 670563 | Kannur | 50 | 04972781453 |
| 8 | SGA | Santhigiri Ayurveda Medical College, Olassery P O, Kodumba via, Palakkad - 678551 | Calicut | 50 | 04912574574 |
| 9 | SNA | Sree Narayana Institute of Ayurverdic Studies \& Research, Karimpinpuzha P O, Pangode, Puthur, Kollam | Kerala | 50 | 04742417036 |
| 10 | VSH | Vishnu Ayurveda College, Govt. Press P O, Shornur, Palakkad | Calicut | 50 | 04662220555 |

[^1]
## ANNEXURE - V (2) <br> AYURVEDA (BAMS) COURSE

SPECIAL RESERVATION SEATS IN AYURVEDA MEDICAL COLLEGES
(See Clause 4.1.13, 5.1, 5.2)

| Sl. No. | Category | TVA | TPA | KNA | OLR | KTL | TOTAL |
| :---: | :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Andaman Nicobar nominee | 1 | - | - | - | - | 1 |
| 2 | Lakshadeep nominee | - | 1 | - | - | - | 1 |
| 3 | Sports quota | 1 | - | 1 | - | - | 2 |
| 4 | NCC quota | - | 1 | - | - | - | 1 |
| 5 | Ex-Servicemen Quota | 1 | - | - | - | - | 1 |
| 6 | Serving Defence quota | 1 | - | - | - | - | 1 |
| 7 | Management quota | - | - | - | 6 | 5 | 11 |
| 8 | Degree Holders (MBBS/BHMS/DHMS) | 1 | - | - | - | - | 1 |
| 9 | Nurses Quota | - | - | 1 | - | - | 1 |
| Total |  |  |  |  |  |  | $\mathbf{5}$ |

* Allotments from the State Rank List to Self financing Colleges will be subject to Clause 1.6, 2.2 and Clause 5.2 (vii)

(See Clause 2.5.2)

| SI. No. | Code | Self financing Sidha Medical College* | University | Total | Phone No |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | SGS | Santhigiri Sidha Medical College, Santhigiri P O, <br> Pothencode, Thiruvananthapuram -695584 | Kerala | 50 | 04712719343 |

* Allotments from the State Rank List to Self financing Colleges will be subject to Clause 1.6 and 2.2


## ANNEXURE VII (1) <br> KERALA AGRICULTURAL UNIVERSITY COURSES <br> SEATS FOR VARIOUS COURSES

(See Clause 2.6, 2.7)

| SI. No. | Code | Name of College | No. of Seats* | Phone No. |
| :---: | :---: | :---: | :---: | :---: |
| MEDICAL STREAM (Agriculture) |  |  |  |  |
| Bachelor of Science in Agriculture - [BSc. Hons. (Ag)] : [Course Code 'AA'] |  |  |  |  |
| 1 | COA | College of Agriculture, Vellayani P O, Thiruvananthapuram - 695522 | 59 | 04712381829 |
| 2 | COH | College of Horticulture, Vellanikkara, KAU P O, Thrissur - 680656 | 59 | 04872370822 |
| 3 | CON | College of Agriculture, Padannakkad P O, Kasaragod - 671328 | 29 | 04672280616 |
| Bachelor of Veterinary Science \& Animal Husbandry** [BVSc.\& AH] : [Course Code 'AV'] |  |  |  |  |
| 1 | TCV | College of Veterinary and Animal Sciences, Mannuthy P O, Thrissur - 680651 | 78 | 04872370344 |
| 2 | WYV | College of Veterinary and Animal Sciences, Lakkidi P O, Pookot, Wayanad - 673576 | 42 | 04936256380 |
| Bachelor of Fisheries Science - [BFSc] : [Code 'AF']. |  |  |  |  |
| 1 | COF | College of Fisheries, N H Bye-pass Road, Panangad P O, Ernakulam - 682506 | 50 | 04842700337 |
| Bachelor of Science in Forestry - BSc. Hons. (Forestry) : [Course Code 'FR'] |  |  |  |  |
| 1 | COR | College of Forestry, Vellanikkara, KAU P O, Thrissur - 680656 | 22 | 04872370050 |
| ENGINEERING STREAM |  |  |  |  |
| Bachelor of Agricultural Engineering \&Technology - [BTech (Ag. Engg)] : [Course Code 'AG'] |  |  |  |  |
| 1 | KCT | Kelappaji College of Agrl. Engg. \& Technology, Tavanur, Malappuram. | 46 | 04942686214 |
| Bachelor of Technology (Dairy Science \& Tech.) - [BTech (DSc \&Tech)] : [Course Code 'DS'] |  |  |  |  |
| 1 | CDT | College of Dairy Sciences and Technology, Mannuthy, Thrissur | 23 | 04872372861 |

[^2]> | ANNEXURE - VII (2) |
| :--- |
| KERALA AGRICULTURAL UNIVERSITY COURSES |
| SPECIAL RESERVATION SEATS OVER \& ABOVE THE |
| INTAKE CAPACITY IN VARIOUS COLLEGES |

(See Clause 4.1.14)

| Category | BSc. Hons. (Ag) |  |  | BVSc. \& AH |  | $\begin{aligned} & \text { 呙 } \\ & \text { W } \end{aligned}$ |  |  | $\begin{aligned} & \frac{5}{0} \\ & \stackrel{\omega}{6} \\ & \hline 8 \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | COA | COH | CON | TCV | WYV |  |  |  |  |
| Open seats | 35 | 35 | 19 | 61 | 31 | 33 | 18 | 40 | 16 |
| ICAR \& VCl | 9 | 9 | 4 | 11 | 6 | 7 | 3 | 4 | 4 |
| Dairy Farm Instructors (DF) |  |  |  |  |  |  |  |  | 2 |
| Children of Agriculturist (Open) (CA) | 1 | 1 | 1 | 1 | 1 |  |  |  |  |
| Children of Agriculturist (SEBC) CA (C E) |  |  | 1 |  |  |  |  |  |  |
| Children of Agriculturist (SC/ST) CA (CS) | 1 |  |  |  |  |  |  |  |  |
| Farm Labourers and their children (FL) |  | 1 |  | 1 |  |  |  |  |  |
| Repatriates from Burma and Ceylon (CB) | 1 | 1 |  | 1 | 1 |  |  |  |  |
| Village level workers (VL) | 1 | 1 |  |  |  |  |  |  |  |
| Agricultural Demonstrators (AD) | 5 | 5 |  |  |  |  |  |  |  |
| Farm Assistant (Agriculture) (FA) | 1 | 1 |  |  |  |  |  |  |  |
| Diploma holders in Agricultural Science DIP(A) - (DG) | 3 | 3 |  |  |  |  |  |  |  |
| Sports Quota (SP) |  | 1 |  | 1 |  | 1 | 1 | 1 | 1 |
| Anglo Indian/Jews AI / JW |  | 1 |  |  |  |  |  |  |  |
| Sons/Daughters of Freedom fighters (FF) | 1 |  |  |  |  |  |  |  |  |
| Livestock Inspectors (LS) |  |  |  |  | 1 |  |  |  |  |
| Farm Assistant (Veterinary) (FV) |  |  |  |  | 1 |  |  |  |  |
| Seats for Children of fishermen (CF) |  |  |  |  |  | 6 |  |  |  |
| NCC Quota (CC) |  |  |  | 1 |  |  |  |  |  |
| Andaman \& Nicobar nominees (A\& N) |  |  | 1 |  |  |  |  |  |  |
| Lakshadeep nominees (LD) |  |  | 2 |  |  | 2 |  |  |  |
| Children of Serving Defence Personnel (SD) |  |  | 1 |  | 1 |  |  | 1 |  |
| Defence Killed/Missing/Disabled in action (DK) | 1 |  |  | 1 |  | 1 |  |  |  |
| Grand Total | 59 | 59 | 29 | 78 | 42 | 50 | 22 | 46 | 23 |

## ANNEXURE - VIII <br> LIST OF SCHEDULED CASTES (SC)

[As Amended by The Constitution (Scheduled Castes) Orders (Second Amendment) Act, 2002 (Act 61 of 2002) Vide Part VIII - Kerala - Schedule 1 Notified in the Gazette of India dated 18.12.2002, The Constitution (Scheduled Castes) Order (Amendment) Act 2007]
[See Clause 5.4.3 (a)]

| 1 | Adi Andhra | 37 | Mannan (ם¢్ల๐๙3), Pathiyan, Perumannan, |
| :---: | :---: | :---: | :---: |
| 2 | Adi Dravida |  | Vannan, Velan |
| 3 | Adi Karnataka | 38 | xxx |
| 4 | Ajila | 39 | Moger (other than Mogeyar) |
| 5 | Arunthathiyar | 40 | Mundala |
| 6 | Ayyanavar | 41 | Nalakeyava |
| 7 | Baira | 42 | Nalkadaya |
| 8 | Bakuda | 43 | Nayadi |
| 9 | xxx | 44 | xxx |
| 10 | Bathada | 45 | Pallan |
| 11 | xxx | 46 | Palluvan |
| 12 | Bharathar (Other than Parathar), Paravan | 47 | Pambada |
| 13 | xxx | 48 | Panan |
| 14 | Chakkiliyan | 49 | xxx |
| 15 | Chamar, Muchi | 50 | Paraiyan, Parayan, Sambavar, Sambavan, |
| 16 | Chandala |  | Sambava, Paraya, Paraiya, Parayar |
| 17 | Cheruman | 51 | xxx |
| 18 | Domban | 52 | xxx |
| 19 | XXX | 53 | xxx |
| 20 | XxX | 54 | Pulayan, Cheramar, Pulaya, Pulayar, Cherama, Cheraman, Wayanad Pulayan, Wayanadan |
| 21 | xxx |  | Pulayan, Matha, Matha Pulayan |
| 22 | Gosangi | 55 | XXX |
| 23 | Hasla | 56 | Puthirai Vannan |
| 24 | Holeya | 57 | Raneyar |
| 25 | Kadaiyan | 58 | Samagara |
| 26 | Kakkalan, Kakkan | 59 | Samban |
| 27 | Kalladi | 60 | Semman, Chemman, Chemmar |
| 28 | Kanakkan, Padanna, Padannan | 61 | Thandan (excluding Ezhuvas and Thiyyas who are |
| 29 | xxx |  | known as Thandan, in the erstwhile Cochin and Malabar areas) and (Carpenters who are known as |
| 30 | Kavara (other than Telugu speaking or Tamil speaking Balija Kavarai, Gavara, Gavarai, Gavarai Naidu, Balija Naidu, Gajalu Balija or Valai Chetty) | 62 | Thachan, in the erstwhile Cochin and Travancore State) |
|  |  |  |  |
| 31 | Koosa | 63 | Vallon |
| 32 | Kootan, Koodan | 64 | Valluvan |
| 33 | Kudumban | 65 | xxx |
| 34 | Kuravan, Sidhanar, Kuravar, Kurava, Sidhana | 66 | xxx |
| 35 | Maila | 67 | Vetan |
| 36 | Malayan [In the areas comprising the Malabar District as specified by Sub-section (2) of Section 5 of the State Re-organization Act. 1956 (37 of 1956)]. | 68 69 | Vettuvan, Pulaya Vettuvan (in the areas of eastwhile Cochin State only). <br> Nerian |

ANNEXURE - IX
LIST OF SCHEDULED TRIBES (ST)
[As Amended by The Scheduled Castes and Scheduled Tribes Orders (Amendment) Act, 2002 (Act 10 of 2003) Vide Part - VII Kerala - Second Schedule Notified in the Gazette of India dated 8.1.2003]
[See Clause 5.4.3 (a)]

| 1 | Adiyan | 23 | Malakkuravan <br> 2 |
| :--- | :--- | :--- | :--- |
| Arandan [Arandanan] | 24 | Malasar |  |
| 3 | Eravallan | 25 | [Malayan, Nattu Malayan, Konga Malayan |
| 4 | Hill Pulaya, Mala Pulayan, Kurumba Pulayan, |  | (excluding the areas comprising the Kasaragod, <br> Kannur, Wayanad and Kozhikode Districts) |
|  | Kuravazhi Pulayan, Pamba Pulayan | 26 | Malayarayar |
| 5 | Irular, Irulan | 27 | Mannan (هmonor) |
| 6 | Kadar [Wayanad Kadar] | 28 | xxx |
| 7 | xxx | 29 | Muthuvan, Mudugar, Muduvan |
| 8 | Kanikkaran, Kanikkar | 30 | Palleyan, Palliyan, Palliyar, Paliyan |
| 9 | Kattunayakan | 31 | xxx |
| 10 | [Kochuvelan] | 32 | xxx |
| 11 | xxx | 33 | Paniyan |
| 12 | xxx | 34 | Ulladan, [Ullatan] |
| 13 | Koraga | 35 | Uraly |
| 14 | xxx | 36 | Mala Vettuvan(in Kasaragod \& Kannur districts) |
| 15 | Kudiya, Melakudi | 37 | Ten Kurumban, Jenu Kurumban |
| 16 | Kurichchan [Kurichiyan] | 38 | Thachanadan, Thachanadan Moopan |
| 17 | Kurumans, Mullu Kuruman, Mulla Kuruman, | 39 | Cholanaickan |
|  | Mala Kuruman | 40 | Mavilan |
| 18 | Kurumbas, [Kurumbar, Kurumban] | 41 | Karimpalan |
| 19 | Maha Malasar | 42 | Vetta Kuruman |
| 20 | Malai Arayan [Mala Arayan] | 43 | Mala Panikkar |
| 21 | Malai Pandaram |  |  |
| 22 | Malai Vedan [Malavedan] |  |  |

Malakkuravan
[Malayan, Nattu Malayan, Konga Malayan
(excluding the areas comprising the Kasaragod,
Kannur, Wayanad and Kozhikode Districts)
Malayarayar
nan (®TMO®๐)

Muthuvan, Mudugar, Muduvan
Palleyan, Palliyan, Palliyar, Paliyan
xxx
Paniyan
Ulladan, [Ullatan]
Uraly
Mala Vettuvan(in Kasaragod \& Kannur districts)
Thachanadan, Thachanadan Moopan
Cholanaickan
Mavilan
Karimpalan
Mala Panikkar

## ANNEXURE - X <br> LIST OF OTHER ELIGIBLE COMMUNITIES (OEC)

[See Clause 5.4.3 (f)]

## Chemman/Chemmar <br> Madiga <br> Pulluvan <br> Thachar (other than Carpenter throughout State <br> excluding the erstwhile Malabar area) <br> Chakkamar <br> Varnavar <br> Kudumbi <br> Dheevara/Dheevaran, Arayan, Valan, Nulayan, <br> Mukkuvan, Arayavathi, Valinjiar, Paniakkal, <br> Mokaya, Bovi, Mogayar and Megavirar <br> Peruvannan <br> 10 Scheduled Castes converts. <br> 11 Kusavan including Kusavar, Kulalan, Kumbaran, Velaan, Odan, Andhra Nair, Anthru Nair

12 Malayan, (Konga-Malayan, Pani Malayan (in the erstwhile Malabar area alone)

13 Pathiyan (other than Dhobies)
14 Allar (Alan)
15 Malavettuvan
16 Malamuthan
17 KunduVadiyan
18 Thachanadan Moopan
19 Wayanad Kadar
20 Kalanadi
21 Chingathan
22 Malayalar
23 Malapanicker
24 Urindavan
25 Marati
26 Pulaya Vettuvan (except in the areas of eastwhile Cochin State)

## ANNEXURE - XI <br> LIST OF SOCIALLY AND EDUCATIONALLY BACKWARD CLASSES (SEBC)

 [Vide G.O. (P) 208/66/Edn. dated 02.5.1966] \& G.O. (Ms) No. 95/08/SCSTDD dated 06.10.2008[See Clause 5.4.2 (a)]
I. Ezhavas including Ezhavas, Thiyyas, Ishuvan, Izhuvan, Illuvan and Billava
II. Muslims (all sections following Islam)
III. Latin Catholics other than Anglo-Indians
IV. Other Backward Christians
(a) SIUC
(b) Converts from Scheduled Castes to Christianity
V. Kudumbi
VI. Other Backward Hindus, i.e.

1. Agasa
2. Arayas including Valan, Mukkuvan, Mukaya, Mogayan, Arayan, Bovies, Kharvi, Nulayan, and Arayavathi
3. Aremahrati
4. Arya including Dheevara/Dheevaran Atagara, Devanga, Kaikolan, (Sengunthar) Pattarya, Saliyas (Padmasali, Pattusali, Thogatta,

|  | Karanibhakatula, Senapathula, Sali, Sale, Karikalabhakulu, Chaliya) Sourashtra, Khatri, Patnukaran, Illathu Pillai, Illa Vellalar, Illathar |
| :---: | :---: |
| 5. | Bestha |
| 6. | Bhandari or Bhondari |
| 7. | Boya |
| 8. | Boyan |
| 9. | Chavalakkaran |
| 10. | Chakkala (Chakkala Nair) |
| 11. | Devadiga |
| 12. | Ezhavathi (Vathi) |
| 13. | Ezhuthachan, Kadupattan |
| 14. | Gudigara |
| 15. | Galada Konkani |
| 16. | Ganjam Reddies |
| 17. | Gatti |
| 18. | Gowda |
| 19. | Ganika including Nagavamsom |
| 20. | Hegde |
| 21. | Hindu Nadar |
| 22. | Idiga including Settibalija |
| 23. | Jangam |
| 24. | Jogi |
| 25. | Jhetty |
| 26. | Kanisu or Kaniyar-Panicker, Kaniyan, Kanisan, Kannian or Kani, Ganaka |
| 27. | xxx |
| 28. | Kalarikurup or Kalari Panicker |
| 29. | Kerala Muthali |
| 30. | Kusavan including Kulala, Kumbaran, Odan, Oudan (Donga) Odda (Vodde or Vadde or Veddai) Velaan, Andhra Nair, Anthuru Nair. |
| 31. | Kalavanthula |
| 32. | Kallan including Isanattu Kallar |
| 33. | Kabera |
| 34. | Korachas |
| 35. | Kammalas including Viswakarmala, Karuvan, Kamsalas, Viswakarmas, Pandikammala, Malayal-Kammala, Kannan, Moosari, Kalthachan, Kallasari, Perumkollen, Kollan, Thattan, Pandithattan, Thachan, Asari, Villasan, Vilkurup, Viswabrahmins, Kitara, Chaptegara. |
| 36. | Kannadiyans |
| 37. | Kavuthiyan |
| 38. | Kavudiyaru |
| 39. | Kelasi or Kalasi Panicker |
| 40. | Koppala Velamas |
| 41. | Krishnanvaka |
| 42. | Kuruba |

43. Kurumba
44. Maravan (Maravar)
45. Madivala
46. Maruthuvar
47. Mahratta (Non-Brahman)
48. Melakudi (Kudiyan)
49. Mogaveera
50. Moili
51. Mukhari
52. Modibanda
53. Moovari
54. Moniagar
55. Naicken including Tholuva Naicker and

Vettilakkara Naicker
56. Padyachi (Villayankuppam)
57. Palli
58. Panniyar or Pannayar
59. Parkavakulam (Surithiman, Malayaman, Nathaman, Moopanar and Nainar)
60. Rajapuri
61. Sakravar (Kavathi)
62. Senaithalaivar, Elavania, Senaikudayam
63. Sadhu Chetty including Telugu Chetty or 24

Manai Telugu Chetty and Wynadan Chetty
64. Tholkolan
65. Thottiyan
66. Uppara (Sagara)
67. Ural Goundan
68. Valaiyan
69. Vada Balija
70. Vakkaliga
71. Vaduvan(Vadugan)
72. Veera Saivas (Pandaram, Vairavi, Vairagi,

Yogeeswar, Matapathi and Yogi)
73. Veluthedathu Nair including Vannathan,

Veluthedan and Rajaka
74. Vilakkithala Nair including Vilakkathalavan,

Ambattan Pranopakari, Pandithar and Nusuvan
Vaniya including Vanika, Vanika Vaisya, Vaisya Chetty, Vanibha Chetty, Ayiravar Nagarathar,
Vaniyan
Yadava including Kolaya, Ayar, Mayar, Maniyani, Eruman, Golla and Kolaries
Chakkamar
Mogers of Kasaragod Taluk
Maratis of Hosdurg Taluk
Paravans of Malabar area excluding Kasaragod Taluk
81. Peruvannan (Varnavar)

## GUIDELINES FOR THE ISSUE OF THE "CERTIFICATE SHOWING SCHOOL STUDIES IN KERALA FROM STDS. VIII TO XII" BY THE HEAD(S) OF THE EDUCATIONAL INSTITUTIONS

[See Clause 6.1.1 (a) (vii) \& 7.5.1 (a) (vii)]

1. A "Certificate showing School Studies in Kerala from Stds. VIII to XII" issued by the Head of educational institutions in Kerala is prescribed as one of the certificates to prove the eligibility regarding the nativity of candidates appearing for the Entrance Examinations 2009, for admission to Engineering / Medical / Agricultural courses in Kerala State.
2. The Certificate is to be issued by the heads of the institutions (schools) where the applicant has completed his/her studies in Standard XII.
3. The Head of the school (last attended by the candidate) may rely on the school records/certificates for this purpose making sure that the candidate has undergone his/her studies in Kerala itself in all the classes from Standards VIII to XII. In case of doubt, the Heads of the schools may direct the candidate to obtain necessary proof of the same from the schools attended formerly.
4. In any case the Heads of schools should make sure that the candidate has undergone his/her studies for 5 years in Standards VIII to XII in the schools in Kerala, before the Certificate is issued to the candidate in the body of the Application Form, in the proforma given as item 13.1(b) on Page 2.
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ANNEXURE XIII (a)
CERTIFCATEFOR CLAIMING SPECIAL RESERVATION UNDER QUOTA FOREX-SERVICEMEN(XS) / DEPENDENT OF DEFENCE PERSONNE KUШD I MSSING / DISABLED IN ACTION (DK) / DIED-IN-HARNESS (HR)
(See Clause 5.2.1, 5.2.2)
```

Certified that Master/Kum.
an applicant for admission to the Professional Degree Courses, Kerala 2009, is the son/daughter/widow* of Shri/Smt
(Official address) who is/was an ex-serviceman / defense personnel killed / missing / disabled in action and is/was in receipt of Disability Pension I died-in-harness* and that no one else in the family of the applicant has earlier enjoyed the special reservation benefit applicable to them, for admission to Professional Degree Courses in Kerala.

```
    Signature of Military Authority /
Place
Date
    State's Zilla Sainik Welfare Officer
    Name
    (Office Seal)
* Strike whichever is not applicable.
ANNEXURE XIII - (b)
CERTIACATE FOR CLAIM OF SPECIAL RESERVATION
UNDER QUOTA FOR CHLDREN OF SERVING DEFENCE PERSONNE (SD) / PARA MபTARY FORCE PERSONNEL (RP)
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(See Clause 5.2.3 \& 5.2.4)

Certified that Master/Kum.
an applicant for admission to the Professional Degree Courses, Kerala, 2009 is the son/daughter* of Shri/Smt
(Official address)
who is a serving defence / paramilitary force* personnel presently working at

Signature of Commanding Officer
Place Name
Date
(Office Seal)

[^3]
# ANNEXUREXIV <br> [PROFORMA OF THE CERTIFCATES TO BE PRODUCED FOR CLAIMOF RESERVATION FOR CANDIDATES IN GOVT. SERVCE] <br> SERVCE CERTIFCATE FOR CLAIM OF SPECIAL RESERVATION UNDER CATEGORIES NQ/ NH/NY 

[See Clause 5.2.11(i), (ii) \& (iii)]

Certified that Shri/Smt $\qquad$
(Name \&
official address) an applicant for admission to the Professional Degree Courses, Kerala, 2009 is working as and is a regular employee in Kerala State Government

Service.

| Place : | Signature of Issuing Authority |
| :--- | :--- |
| Date : | Name, designation and |
|  | Address of the Head of Office |

(Office Seal)

# ANNEXURE-XV <br> INIER-CASTE MARRIAGE CERTIFCATE FOR SON/DAUGHIER OF INIER-CASTE MARRIED COUPLES 

[See Clause 5.4.2 (g), 5.4.2 (h), 7.2.1, 7.5.2(c)]
 admission to Professional Degree Courses, Kerala, 2009, is the son/daughter of an Inter-caste married couple, and his/her father Shri
belongs to $\qquad$ Community and his/her mother Smt.
belongs to $\qquad$ Community.

Place :
Date
(Office Seal)

Signature of Village Officer/Tahasildar
Name of Village Officer/Tahasildar
Name of Village \& District

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                    ANNEXURE - XVI
            INCOME CERTIFICATE FOR CLAIMING THE SEATS RESERVED FOR
                        THE CHILDREN OF AGRICULTURIST (CA) / FISHERMEN (CF)
                                    [See Clause 5.2.12 & 5.2.14]
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# ANNEXURE - XVII <br> PHYSICAL FITNESS CERTIFICATES <br> <br> (a). CERTIFICATE OF PHYSICAL STANDARDS / FITNESS <br> <br> (a). CERTIFICATE OF PHYSICAL STANDARDS / FITNESS FOR ADMISSION TO BSc. Hons. (FORESTRY) COURSE 

[See Clause 13.3 (d) \& 13.3 (g)]
Signature of candidate


# GUIDELINES FOR THE ASSESSMENT OF INCOME FOR THE PURPOSE OF ISSUING INCOME CERTIFICATE 

[As per GO (Ms) No.192/85/RD dated 23.3.1985 of Revenue (D) Department]

[See Clause 5.4.2 (b)]

## (1) Different purposes of Income Certificate:

(a) for availing fee concession in Education Institution.
(b) for securing seats in the quota reserved in professional colleges of the Socially and Economically Backward classes.
(c) for obtaining loans from Government Departments, Kerala Financial Corporation etc. for various purposes.
(d) for getting different kinds of pension such as Old Age Pension, Widow Pension, Agricultural Labourers Pension, Pension for T.B Patients, Leprosy Patients, Cancer Patients etc.
(e) for getting financial aid available to the Ex-Servicemen.
(f) for getting the loan available to the SC/ST for different purposes.
(g) for getting the relief given to the victims of natural calamities.
(h) for getting the artificial limb, cycle, etc., supplied to the physically handicapped persons.
(i) for getting free ration etc.
(2) Definition:
(a) Family:-

For assessing the income of the family, the term of family would mean a family consisting of
(1) Applicant
(2) Parents/Guardian
(3) Unmarried brothers and sisters/ dependant unmarried sons and daughters living together in the same house, widowed daughters actually dependant on the family.
(b) Income:-

Income would mean the regular income actually earned by the family members. Income of unmarried daughters and unmarried brothers and sisters as the case may be should be reckoned for calculating family income.

Income of the members of the family living together alone need be reckoned.

## Exceptions

(1) Income of widows daughter/ sister will be excluded.
(2) Terminal benefits will be excluded.
(3) Surrender leave salary will not be reckoned.
(4) Festival allowance will not be reckoned.
(5) Family pension will be excluded.
(3) Different sources of income for the purpose of Income Certificate:
(i) Income from salary:

Salary income excluding H.R.A., Special pay, Deputation Pay/Allowances etc., will be reckoned for calculating total income. T.A., P.T.A., honorarium for special work etc. will be excluded for calculating salary income. D.A will be included for calculating total income.
(ii) Income from pension:

The amount excluding the amount of commutation will be taken into account for the purpose of Income Certificate. The pension will be assessed on the basis of the Pension Payment Order.
(iii) Income from business:

This can be assessed on the basis of Income Tax Certificate. In the cases of non-assesses the Income Certificate will be issued on the basis of declaration filed by the persons concerned. In the case of nonassesses Income Certificate shall be issued on the basis of the declaration filed by the applicant/parent/or guardian in the case of students.
(iv) Income of persons employed abroad shall be assessed on the basis of the declaration filed by the applicant / parent or guardian in the case of students.
(v) Income of daily labourers:

Income Certificate shall be issued on the basis of the declaration filed by the applicant/ parent or guardian in the case of student.
(vi) Income from property:

The income from property will include the income from produce viz. coconut etc., value of improvements on landed property will be calculated on the basis of the principles adopted for the purpose of land acquisition.
(vii) Income from rented buildings:

Income on this account will be calculated deducting the annual maintenance charges.

## (4) Assessment of income of the family having more members:

When there are more members in a family, the income available for distribution will be less this compared to a family having lesser number of members. In such cases an allowance will be given to each member in excess of five. For example if there are five members in a family, three children and parents, the income from all members should be taken into account for computing family income. If the number exceeds five, an allowance will be given to each additional child. The amount of such allowance ( to be decided) should be deducted from the total annual income of the family for the purpose of Income Certificate.
(5) Variation of super checking:

There may be variation between the income assessed by the Village Officer and that arrived at by higher officers on super checking. 10\% or less of such variation can be allowed.
(6) Period of validity:

Normally a Certificate issued to a person for a particular purpose should be binding for a period of two years or for the term of the course.

## (7) Cancellation of false Certificates:

The certificates obtained fraudulently, that is by willfully suppressing the actual income or willfully giving false income, will be cancelled.

## (8) Authority:

The Village Officer shall be the authority to issue Income Certificate that is required to be produce before the State Government Department or Authorities. In the case of certificate required to be produced before the Central Government Departments the Tahsildar shall be the authority to issue the Income Certificate.

The Tahsildar shall be the Appellate Authority to entertain the appeal if any against the income assessed by the Village Officer. The Revenue Divisional Officer/Deputy Collector shall be the Revisional Authority. Appeal against the income assessed by the Tahsildar shall be preferred before the Revenue Divisional Officer/Deputy Collector. The Collector shall be the Revisional Authority in that case.
(9) Co-ordinating Department:

The Revenue Department in the Secretariat shall be the Co-ordinating department in respect of the issuance of guidelines/instructions relating to the grand of the Income Certificate, by Village Officer/Tahsildar. The Revenue Department shall be consulted if and when any event/instructions are proposed to be issued in the matter by other departments.

The Application of Income Certificate shall be in the prescribed form, duly affixing Court Fee stamp worth Rs.1/-.
The Income Certificate shall be issued in the form, prescribed by the Revenue Department.

## Annexure - XVIII (ii)

Norms for selection of candidates for admission to Professional Courses under Sports Quota for which seats are reserved for sports persons Approved by the Standing Committee, KERALA SPORTS COUNCIL
(See clause 5.2.19)

| Priority No | Order of Priority for Selection of Candidates | Marks out of 100 |
| :---: | :---: | :---: |
| 1 | Representing India in approved World Competitions/Olympics and Winning First place | 100 |
| 2 | Representing India in approved World Competitions/Olympics and Winning Second place | 99.50 |
| 3 | Representing India in approved World Competitions/Olympics and Winning Third place | 99.00 |
| 4 | Representing India in World University Games and winning First place | 98.00 |
| 5 | Representing India in World University Games and winning Second place | 97.50 |
| 6 | Representing India in World University Games and winning Third place | 97.00 |
| 7 | Representing India in Common Wealth Games/Asian Games and winning First place | 96.00 |
| 8 | Representing India in Common Wealth Games/Asian Games and winning Second place | 95.50 |
| 9 | Representing India in Common Wealth Games/Asian Games and winning Third place | 95.00 |
| 10 | Representing India in Common Wealth/Asian Championships and winning First place | 93.00 |
| 11 | Representing India in Common Wealth/Asian Championships and winning Second place | 92.50 |
| 12 | Representing India in Common Wealth/Asian Championships and winning Third place | 91.00 |
| 13 | Representing India in approved World competitions for Juniors and winning First place | 90.00 |
| 14 | Representing India in approved World competitions for Juniors and winning Second place | 89.50 |
| 15 | Representing India in approved World competitions for Juniors and winning Third place | 89.00 |
| 16 | Representing India in World School Games and winning First place | 87.00 |
| 17 | Representing India in World School Games and winning Second place | 86.50 |
| 18 | Representing India in World School Games and winning Third place | 86.00 |
| 19 | Representing India in approved World Competitions/Olympics | 82.00 |
| 20 | Representing India in Common Weath Games/Asian Games | 80.00 |
| 21 | Representing India in the Asian School Games and Asian Common Wealth Championships for Junior/Youths and winning First place | 79.00 |
| 22 | Representing India in the Asian School Games and Asian Common Wealth Championships for Junior/Youths and winning Second place | 78.50 |
| 23 | Representing India in the Asian School Games and Asian Common Wealth Championships for Junior/Youths and winning Third place | 78.00 |
| 24 | Representing India in Common Wealth /Asian Championships | 77.00 |
| 25 | Representing India in World University Games | 76.00 |
| 26 | Representing India in approved World competition for Juniors | 75.00 |
| 27 | Representing India in World School Games | 74.00 |
| 28 | Representing India in the Asian School Games and Asian/Common Wealth Championships for Juniors/Youth | 73.00 |
| 29 | Representing India in SAF Games and winning First place | 70.00 |
| 30 | Representing India in SAF Games and winning Second place | 69.50 |
| 31 | Representing India in SAF Games and winning Third place | 69.00 |
| 32 | Representing India in SAF Championships and winning First place | 68.00 |


| 33 | Representing India in SAF Championships and winning Second place | 67.00 |
| :---: | :---: | :---: |
| 34 | Representing India in SAF Games and winning Third place | 66.00 |
| 35 | Representing India in the SAF Games | 65.00 |
| 36 | Representing India in the Asia Pacific Championship and winning the First place | 64.50 |
| 37 | Representing India in the Asia Pacific Championship and winning the Second place | 64.00 |
| 38 | Representing India in the Asia Pacific Championship and winning the Third place | 63.50 |
| 39 | Representing India in the SAF Championships for Junior/Youths and winning First place | 63.00 |
| 40 | Representing India in the SAF Championships for Junior/Youths and winning Second place | 62.50 |
| 41 | Representing India in the SAF Championships for Junior/Youths and winning Third place | 62.00 |
| 42 | Representing India in the Asia Pacific Championships | 61.50 |
| 43 | Representing India in the SAF Championship | 61.00 |
| 44 | Representing Kerala State/Indian Universities in National Championships for Men/Women/National Games and Winning First place | 60.00 |
| 45 | Representing Kerala State/Indian Universities in National Championships for Men/Women/National Games and Winning Second place | 59.00 |
| 46 | Representing Kerala State/Indian Universities in National Championships for Men/Women/National Games and Winning Third place. | 58.00 |
| 47 | Representing a University from Kerala State in All India Inter University competitions and winning First place | 57.00 |
| 48 | Representing a University from Kerala State in All India Inter University competitions and winning Second place | 56.00 |
| 49 | Representing a University from Kerala State in All India Inter University competitions and winning Third place | 55.00 |
| 50 | Representing Kerala State in National Championship for Juniors/Youth and winning First place | 50.00 |
| 51 | Representing Kerala State/Combined All India Navodaya/Kendriyavidyalaya team in All India School Games and winning First place | 49.00 |
| 52 | Representing Kerala State in National Championship for Juniors/Youth and winning Second place | 48.00 |
| 53 | Representing Kerala State/Combined All India Navodaya/Kendrayavidyalaya team in All India School Games and winning Second place | 47.00 |
| 54 | Representing Kerala State in National Championship for Juniors/Youth and wining Third place | 46.00 |
| 55 | Representing Kerala State/Combined All India Navodaya/Kendriyavidyalaya team in All India School Games and winning Third place | 45.00 |
| 56 | Representing Kerala State in South Zone Championship for Men/Women and winning First place | 44.00 |
| 57 | Representing Kerala State in South Zone Championship for Men/Women and winning Second place | 43.00 |
| 58 | Representing Kerala State in South Zone Championship for Men/Women and winning Third place | 42.00 |
| 59 | Representing Kerala State in South Zone Championship for Juniors/Youth and winning First place | 36.00 |
| 60 | Representing Kerala State in South Zone Championship for Juniors/Youth and winning Second place. | 35.00 |
| 61 | Representing Kerala State in South Zone Championship for Juniors/Youth and winning Third place | 34.00 |
| 62 | Representing District in Inter District Championship for Seniors and winning First place | 33.00 |
| 63 | Representing District in Inter District Championship for Seniors and winning Second place | 32.00 |
| 64 | Representing District in Inter District Championship for Seniors and winning Third place | 31.00 |
| 65 | Representing District in Inter District Championship for Juniors/Youth/other Age Group competitions and wining First place | 30.00 |
| 66 | Representing District in Inter District Championship for Juniors/Youth/other Age Group competitions and wining Second place | 29.00 |
| 67 | Representing District in Inter District Championship for Juniors/Youth/other Age Group competitions and wining Third place. | 28.00 |
| 68 | Representing the Educational District/Sports School/Sports Hostels in the Kerala State School Championships/Mini Games/College Games and winning First place | 27.00 |
| 69 | Representing the Educational District/Sports School/Sports Hostels in the Kerala State School Championships/Mini Games/College Games and winning Second place | 26.00 |
| 70 | Representing the Educational District/Sports School/Sports Hostels in the Kerala State School Championships/Mini Games/College Games and winning Third place | 25.00 |

## NOTE

## MINIMUM ELIGIBILITY FOR ADMISSION TO PROFESSIONAL COURSES

## UNDER SPORTS QUOTA

For those seeking admission to Professional courses (Medical and allied Courses, Engineering, Agricultural Course, LLB Course, MA/MSc Course, the minimum achievement required for selection under the Sports Quota will be SI.No.70, i.e., representing the Educational District/Sports School/sports Hostel in the Kerala State Schools Championship and winning third place.

1. Approved World competitions mean the competitions organised by the International apex bodies of the concerned discipline and in which the National teams are sponsored by the National apex bodies and cleared by Sports Authority of India/Government of India. Only those International Competitions which are being held at the time of preparation of the norms are included in the priority list.
2. The National Championship means the championships conducted by the National apex body of the concerned discipline.
3. Individual Games/Event mean a Game/Event in which individual performs alone (Relay is considered as team event)
4. When a Candidate has a number of achievements in different disciplines his/her best achievements will be taken into consideration.
5. The achievements in two financial years ( $1^{\text {st }}$ April to $31^{\text {st }}$ March) previous to the year of selection shall alone be considered. However, in the case of competitions which are not organised annually the immediately previous completions shall be deemed as the previous two financial years for the purpose of this list.
6. All competitions where an upper age limit is fixed (Youth/Junior/Sub-Junior) would be treated as junior event provided it is not classified as senior event by the concerned National Federation.
7. If a Candidate represents the Indian University team in the National Championships in Men/Women, he/she will be considered for the benefit of the norms only if he/she was a student in one of the Universities in Kerala during the year of representation.
8. When there is a tie in any of the achievements the following criteria as per the priority list below will be applied to break the tie.
9. a) Those with a higher number of achievements will be placed above the others. If the tie still remains the next best achievements as per the order of priority will be considered.
b) If the tie is not broken by the above method the person having the achievement during the year closer to the selection will be given higher weightage.
c) Individual achievements will be ranked above team achievements.
d) If a new record is created he/she will get next priority.
e) If the participants from two age group competitions tie, then participant in the age group with the upper age limit will be given priority.
f) Captaincy in games will be given the next priority.
g) If a tie cannot be broken by any of the above mentioned sports achievements, the marks obtained in the subjects of the qualifying examination will be considered for breaking the tie.

## ANNEXURE - XIX <br> CENTRALIZED ALLOTMENT PROCESS (CAP) - 2009 <br> AUTHORISATION LETTER SUBMITTED BY AN AUTHORISED REPRESENTATIVE I PROXY OF CANDIDATE

[See Clause 11.10]

the person being authorized) to represent me to report at the allotment venue for admission to Professional Degree Courses, 2009. The signature of the person authorized is attested below by a Gazetted Officer.

| Photograph of candidate |
| :---: |
| attested by a Gazetted |
| Officer |

Signature of Candidate:
Name
Address : $\qquad$
$\qquad$
$\qquad$
$\qquad$
(Gazetted Officer to attest the Photograph)
Name
Designation :
(Signature of authorised representative)
(ATTESTED)
(Office Seal)


## UNDERTAKING

$I$, undertake that the decision taken if any, by my authorised representative at the allotment venue shall be binding on me and I shall not have any claim whatsoever, other than the decision taken by my authorised representative on my behalf.

## Place :

Date :
Signature of candidate
Note: An authorized representative attending CAP must bring a photocopy also of the filled up form. The same will be returned to the representative with the seal of the CEE's office. This copy of the filled up form having the seal of the CEE's office can be used in lieu of authorization letter during subsequent appearances.


# ANNEXURE-XX <br> [See Clause 7.4 (a)] <br> ITEM-WISE INSTRUCTIONS TO FILL UP THE APPLICATION FORM \& OMR DATA SHEET 

(Candidates should keep a photocopy of the filled-in application FORM and OMR Data Sheet for future reference)

Note: (i) Before you start filling the application form, please read the Prospectus carefully.
(ii) Any item, which is not applicable to the candidate may be filled as Not Applicable / NA.
(iii) No item should be left unfilled.

IMPORTANT:
(a) CANDIDATES NEED SUBMIT ONLY ONE APPLICATION TO APPEAR FOR ENGINEERING OR MEDICAL ENTRANCE EXAMINATIONS. THOSE APPLYING FOR ARCHITECTURE ALONE NEED NOT APPEAR FOR THIS ENTRANCE EXAMINATION. HOWEVER THEY SHOULD FILL THE APPLICATION FORM AND SUBMIT TO THE CEE BEFORE THE STIPULATED DATE AND TIME. THOSE APPLYING FOR ARHITECTURE ALONG WITH OTHER COURSES SHOULD PUT THE CROSS MARK IN THE APPROPRIATE SQUARES IN THE APPLICATION FORM.
(b) OMR Application No: PLEASE ENSURE THAT THE 'APPLICATION NO.' SHOWN IN THE MAIN APPLICATION FORM AND THAT PRINTED IN THE OMR DATA SHEET ALONG WITH THE BARCODES ARE THE SAME.

## I. INSTRUCTIONS FOR FILLING IN THE MAIN APPLICATION FORM WITH 6 PAGES

Write the Application No. printed in the OMR Data Sheet in the space provided at the top of the Application Form.

1. Centre chosen for Examination(s): - (Codes are given in brackets.)

The Entrance Examinations will be conducted at Thiruvananthapuram (TVM), Kollam (KLM), Pathanamthitta (PTA), Alappuzha (ALP), Kottayam (KTM), Ernakulam (EKM), Idukki (IDK), Thrissur (TCR), Palakkad (PKD), Malappuram (MLP), Kozhikode (KKD), Wyanad (WYD), Kannur (KNR), Kasaragod (KSD), New Delhi (DLH) and Dubai (DUB).
Write the name of the Centre chosen for examination in the rectangular box.
2. Name of Applicant: Write the Name of Applicant in Block Letters with initials at the end. Care is to be taken to enter the name as entered in the SSLC or other relevant certificate.
3. Candidate's Identification: The applicant should use two identical photographs. One is to be affixed in the Application Form and another in the OMR Data sheet. The photograph pasted in the Application Form should be got attested by a Gazetted Officer or by the Head of the Institution where the candidate has studied/is studying for the qualifying examination. Attestation by any other person will not be accepted. The attesting officer should put his/her full signature over the photograph. The office seal of the attesting officer should be affixed alongside. Attestation without the signature of the attesting officer orland the seal of the attesting officer with the office seal will not be accepted and the application will be rejected. The photograph pasted in the OMR Data sheet should not be attested.
4. Address for communication: Write your full postal address for communication in block letters, with the name of the Post Office and Pin Code.
5.(i) Contact telephone number: Indicate your residence telephone number or the nearest telephone number with STD code. Please furnish your mobile number \& e-mail address also, if any
(ii) Candidates giving address outside India against item 4 ,should furnish a local telephone number in India
6. Gender: Write male or female as the case may be.
7.(i) Religion: Write the name of your religion (ii) Caste: Write the caste to which you belong.
8. Date of Birth in Christian era: Write your date of birth. Write the date in the first two boxes, the month in the next two boxes and the year of birth in the last four boxes. For example, if you were born on 3.5.1989, write as

$\left.$| 0 | 3 |
| :--- | :--- |$\quad$| 0 | 5 |
| :--- | :--- |
| 1 | 9 |$|8| c \right\rvert\,$$\quad$

9. Nationality: If you are an Indian citizen, write 'Indian'. If you are a PIO / OCI Card Holder, as defined in Clause 6.1 of the Prospectus, put cross mark $(X)$ in the relevant boxes [9(i) / 9(ii)]. Attach a self-attested copy of the $\mathrm{PIO} / \mathrm{OCl}$ card.
10. Course(s) opted for: Put cross mark $(X)$ in the relevant boxes indicating the course or courses to which admission is sought for.
11. Details of qualifying examination passed/appeared/appearing: (See clause 6.2 of the Prospectus for conditions regarding academic eligibility).
(i) Name of Examination: Write the name of qualifying examination passed/appeared/appearing, namely, Higher Secondary or equivalent examination or Diploma in Engineering or BSc.
(ii) Passed/Appeared/Appearing: Write, as applicable.
(iii) Board/University: Write name of the Board or University conducting the examination.
(iv) Register No. \& Year of appearance: Register No. - Write Register Number (if passed or appeared). If appearing, write 'Appearing'. Year of appearance: Write the Year of passing/appeared/appearing for the qualifying examination.
(v) Name of Institution \& State: Write the name of Institution where you have undergone your qualifying course with the name of State.
12. Name of Parent /Guardian, Relationship and Occupation: Write name of your Parent/Guardian with relationship and occupation.
13. Nativity: (See Clause 6.1 of the Prospectus for conditions regarding nativity)

Write whether you are Keralite, Keralite-AIS or Non-Keralite. If you are Non-Keralite, write your native State or the State of permanent residence in the box provided.
In order to prove the nativity, a candidate should invariably produce any one of the following items:
13.1 Certificate to prove nativity - Keralite
13.1 (a)The Certificate of Birth/Residence from the Village Officer/ Tahsildar or from a competent authority of local body [Certificate 13.1(a), on page 2, to be obtained in the body of the application form] or,
(b)The 'Certificate showing school studies in Kerala from Standards VIII to XII' from the Head of school where the candidate had completed/is completing his/her study in Standard XII, [Certificate 13.1(b), on page 2, to be obtained in the body of the application form] or,
(c)(i)True copy of the relevant page of the SSLC Book, of the candidate showing the place of birth in Kerala or, (ii)True copy of the relevant page of the SSLC of the candidate's father/mother showing the place of birth in Kerala with corroborative evidence showing the relationship between the candidate and father/mother whose SSLC has been submitted or, (iii) the true copy of the relevant page of the passport of the candidate or either of parents issued by the Government of India showing place of birth in Kerala with corroborative evidence showing the relationship between the parent and candidate in case copy of passport of parent is enclosed or (iv)True Copy of birth certificate of candidate or his/her, father/mother showing the place of birth in Kerala with corroborative evidence showing the relationship between the candidate and father/mother whose birth certificate has been submitted. For claiming Keralite-AIS, certificate from competent authority should be attached.
13.2 Certificate to prove Nativity - Non-Keralites (Category I) [NK I] Such candidates should produce the 'Certificate to be issued by the Employer' along with the 'Certificate showing school studies in Kerala in Standards XI \& XII' obtained from the Principal/Head of Institution where the candidate has undergone/is undergoing the qualifying course in Kerala. In case the institution is situated outside Kerala, the certificate will not be valid. [Both the Certificates 13.2(a) and 13.2(b) on page 3 to be obtained in the body of the application form].
13.3 Certificate to prove nativity - Non-Keralites (Category II) [NK II] Such candidates should produce the 'Certificate of Completion of Qualifying Examination' obtained from the Principal/Head of Institution where the candidate has studied/is studying in class XII. [Certificate 13.3 on page 3, to be obtained in the body of the application form].
14. (a) Examinations passed/appeared/appearing: Tick any one or more of the examinations you have passed/appeared/are appearing against the items shown. In the case of Diploma in Engineering candidates, those appearing for the final Diploma examination also can mark this item, whereas BSc. Graduates can mark this item only if they have already passed the examination at the time of applying.
(b) Subject of study in Plus Two/Equivalent: Write all the subjects of study in the Plus Two or equivalent examination. All applicants should obtain the course certificate below item 14, showing all the subjects, second language and date of birth of the applicant as per school records.
15. Communal Reservation:

Note: There are separate application forms for the General and SC/ST Candidates. Candidates other than those belonging to SC/ST categories and those referred to in clause 5.4.2(h) will be treated as General candidates for this purpose. Candidates may go through the relevant instructions given below for filling in this item.
GENERAL FORMS: Candidates claiming reservation under SEBC and those claiming OEC benefit [except those referred to in clause 5.4.2 (h)] should apply in the 'General' form. If such candidates apply in the form meant for SC/ST, their application will be rejected even if supporting documents are attached.
(a) Reservation under SEBC:
(i) Categories eligible for claiming SEBC Reservation: The following categories are eligible for reservation under SEBC:
a. Ezhava
d. Other Backward Christian
b. Muslim
e. Latin Catholic other than Anglo Indian
c. Other Backward Hindu
f. Kudumbi

The full list of Socially and Educationally Backward Classes (SEBC) showing the names of the communities included under each of the six main categories specified above, is given in Annexure XI of the Prospectus.
(ii) Income limit for claiming SEBC Reservation: SEBC candidates whose annual family income* does not exceed Rs. 2.5 lakhs alone are eligible for reservation under this category.
(iii) Certificates to be produced for claiming SEBC Reservation: Candidates satisfying conditions (i) and (ii) above should furnish both the Community and Income Certificates given on Page 5 of the Application in support of their claim. They should write the name of the community under which reservation is claimed in the box given against
item 15(i). [Please also see item (c) below]. *Note: In the case of candidates whose parents are salaried class, for the purpose of calculating total annual family income from salary, the Basic Pay and Dearness Allowance of the employee(s) of the previous financial year are to be taken into account. Inclusion of interim relief in the annual family income will be as per the orders of Revenue Department. HRA, Special pay, Deputation Pay/allowances, TA, PTA, honorarium, etc., will not be reckoned for calculating income. See Annexure XVIII(i) of the Prospectus for the "Guidelines" for the assessment of income for the purpose of issuing the Income Certificate.
(iv) In the case of 'Latin Catholic other than Anglo-Indian', the Community Certificate should clearly specify that the candidate belongs to 'Latin Catholic other than Anglo-Indian' or 'Latin Christian other than Anglo-Indian'. If the entry in the Community Certificate show only as 'Latin Catholic' or 'Latin Christian', the claim under the above category will not be allowed.
(v) If the item is not applicable, please write 'NA'.
(b) Under Other Eligible Communities (OEC) :
(i) The list of Other Eligible Communities (OEC) is given in Annexure $X$ of the Prospectus.
(ii) Certificates to be produced for admitting OEC claim: OEC candidates should furnish Community Certificate and Income Certificate given on Page 5 of the Application for inclusion under OEC category. The annual family income limit of Rs.2.5 Lakhs is applicable for inclusion under OEC category. OEC candidates have no separate quota. They will be considered only against the seats unavailed by SC/ST candidates. If you belong to OEC Community, please write the name of community against the item 15(ii). If the item is not applicable please write 'NA'. [Please also see item (c) below].
Note:- Candidates listed under OEC category, if eligible for reservation under SEBC, should furnish Community and Income Certificate given on Page 5 of the Application Form. Such candidate should write the name of the community (for reservation under SEBC) in the box given against item 15(i) also.
(iii) Reservation for Anglo-Indian/Jew Community: Candidates claiming reservation under Anglo-Indian/Jew Community, should obtain Community Certificate on Page 5 of the Application Form, and should write the name of community as 'Anglo-Indian' or 'Jew' as the case may be, against item 15(ii) in the application form. They need not produce the Income Certificate for claiming this reservation. But those who wish to avail the benefits such as fee concession/scholarships based on annual family income, that may be notified by the Government or admitting authorities or college authorities subsequently, should furnish the Income Certificate below item 16 in the body of the application itself
(iv) If the item is not applicable, please write 'NA'.
(c) Sons or daughters of Inter-caste married couples:

There can be instances, where the candidate is a son or a daughter of parents, who have contracted an Inter-caste marriage. In any case, if at least one of the parents is from the Socially and Educationally Backward Classes (SEBC) or Other Eligible Communities (OEC) or Anglo-Indian/Jew Community, a son or a daughter born out of such a union is eligible for reservation under the relevant quota (SEBC/JW/AI), claim under the relevant category (OEC). SUCH CANDIDATES SHOULD WRITE THE NAME OF THE COMMUNITY UNDER WHICH RESERVATION IS CLAIMED/CLAIM IS PREFERRED AS APPLICABLE AGAINST ITEM 15(i) or 15(ii) (AS APPLICABLE TO HIM/HER) IN THE APPLICATION FORM. They should also write as "Inter-caste" against item 15(iii) in the Application Form. They should produce an 'Inter-Caste Marriage Certificate' obtained from the Revenue Official not below the rank of Village Officer in the Proforma given in Annexure XV of the Prospectus. They need not produce the Income Certificate for claiming this reservation / claim.
(d) Scheduled Castes I Scheduled Tribes (SC/ST) should apply in the form meant for them. Applicants who come under clause $5.4 .2(\mathrm{~h})$ of prospectus should apply in the form meant for SCIST only. If such candidates apply in the 'GENERAL' form, their claims will not be considered even if supporting documents are attached.

## (PLEASE ALSO SEE CLAUSE 5.4.3 OF THE PROSPESCTUS AND THE 'WARNING' GIVEN UNDER THE CLAUSE)

(i) Write the name of Community in the Box given against the item 15 of the SC/ST Application form.

Note:Only natives of Kerala and who belong to communities listed in the Scheduled Castes and Scheduled Tribes Orders (Amendment Act 2002) are eligible for reservation under Scheduled Castes/ Scheduled Tribes quota. [The lists are given in Annexure - VIII \& IX of the Prospectus]. Such candidates should furnish the Community Certificate to be obtained from the Tahsildar, on page 5, in the body of the application form itself, in support of their claim. Certificate obtained as per G.O (MS) No. 136/07/RD dated 27.04 .2007 will be accepted.
(ii) There can be instance, where the candidate is a son or daughter of parents, who have contracted into an inter caste marriage with either father/mother belonging to SC/ST but children not eligible for SC/ST reservation. Such children will be eligible for reservation under SEBC if either father/mother belongs to SEBC as per clause 5.4.2(h). In such a case the candidate should produce an Inter caste marriage certificates obtained from Revenue Officials not below the rank of village officer in the Performa given in Annexure XV. They need not produce the income certificate for claiming such reservation. Religion and Community of father and mother must be noted in the application form.
iii) If intercaste, write religion and community of father.
iv) If intercaste, write religion and community of mother
v) Write whether the SC/ST claim of the candidate has been rejected previously
vi) If not applicable, write 'NA'

## 16. Annual family income:

Candidates applying in 'General' form, belonging to 'Keralite' category, who are not eligible for any communal reservation under SEBC and not eligible to be included under OEC categories and those who wish to avail the benefits such as fee concession/scholarships that may be notified by the Government or admitting authorities or college authorities subsequently, based on annual family income, should furnish the Income Certificate below item 16 in the body of the application itself. (This item is not applicable to SC / ST candidates). Candidates claiming reservation under SEBC/OEC based on Inter-Caste marriage of parents as well as candidates of Anglo-India/Jew community should also obtain this certificate if they wish to be considered for this particular benefit.
17. Special Reservation claimed, if any: (See Clause 5.2.1. to 5.2.20 of the Prospectus)
(a) Reservation under this item comes under the following categories:

| SI.No | Quotas | Codes | Course(s) under which reservation is available |
| :---: | :---: | :---: | :---: |
| i | Ex-serviceman/Son or daughter of Ex-serviceman | XS | ENGG, MBBS, BHMS, BAMS. |
| ii | Son/daughter of Serving Defence Personnel from Kerala | SD | ENGG, MBBS, BHMS, BAMS, B.Sc Hons. (Ag), BVSc \& A.H. |
| iii | Son/daughter, or widows of those who have been in the Defence Services during the recent hostilities, and who have lost their lives, including those missing in action and disabled in action | DK | ENGG, MBBS, BDS, B.Sc Hons. (Ag), BFSc, BVSc \& A.H. |
| iv | Son/daughter or widows of Defence Personnel who died-in-harness | HR | ENGG, MBBS, BDS, B.Sc. Hons. (Ag), BFSc, BVSc \& A.H.(In the event of non-availability of candidates mentioned under items (iii) |
| V | Son/daughter of Personnel serving in Paramilitary Forces, including CRPF, BSF, CISF, ITBSF | RP | ENGG. |
| vi | Anglo Indian Community | AI | MBBS, BDS |
| vii | Jewish / Anglo Indian Community | JW/AI | ENGG, BVSc \& A.H. |
| viii | Degree/Diploma holders in MBBS / BHMS / DHMS | OA | BAMS |
| ix | Degree / Diploma holders in Ayurveda | DA | MBBS |
| x | Degree / Diploma holders in Homoeopathy | DH | MBBS |
| xi | Degree holders in MBBS / BAMS / BVSc \& AH/ BSc(Ag) / BFSc / BSc (Forestry) | OH | BHMS |
| xii | BDS degree holders for MBBS | DM | MBBS |
| xiii | Nurses Allopathy | NQ | MBBS |
| xiv | Nurses Homoeopathy | NH | BHMS |
| xv | Nurses Ayurveda | NY | BAMS |
| xvi | Son/daughter of Agriculturists | CA | B.Sc Hons. (Ag), BVSc \& AH |
| xvii | Farm Labourers, son/daughter of Farm Labourers | FL | B.Sc Hons. (Ag), BVSc \& AH |
| xviii | Son/daughter of Fishermen | CF | BFSc |
| xix | Son/daughter of Freedom Fighters | FF | B.Sc Hons. (Ag), B.Sc Hons. (Forestry) |
| XX | Repatriates from Ceylon/ Burma | CB | B.Sc Hons. (Ag), BVSc \& AH |
| xxi | Scouts \& Guides | SG | ENGG. |
| xxii | Village Level Workers/ Agriculture Demonstrators/ Livestock Inspectors/ Farm Asst (Agri)/Farm Asst (Vety) | VL/AD/LS/ FA/FV | B. Sc Hons. (Ag), BVSc \& AH, B.Tech (Ag. Engg), <br> B.Tech (DSc \& Tech) as applicable |
| xxiii | Diary Farm Instructors | DF | B. Tech. (DSc \& Tech.) |
| xxiv | Sports Quota | SP | ENGG, MBBS, BDS, B.Sc Hons. (Forestry), BHMS, BAMS, BSc (Ag), BFSc, BVSc \& A.H. |
| xxv | NCC Quota | CC | ENGG, MBBS, BDS, BHMS, BAMS, BVSc \& AH. |

(b) For details regarding the eligibility for these reservations and the Certificates to be furnished along with the Application, in support of their claim for each item, please refer clause 5.2 of the Prospectus.
(c) If you claim any one or more of the above Special Reservation items, please write the name of item, or items, to which you seek claim, against the items Special 17(i) / Special 17 (ii) in the application form.
(d) It may be noted that for claim under Special Reservation, attested copy (ies) of the relevant certificate(s) is/are to be furnished. If the format of the certificate is given in the Annexure of the Prospectus, the certificate has to be in that format itself. Claims made without supporting certificates will not be admitted.
(e) Write the details of certificates attached in the place provided.
(f) If no claim is made, write NA.
18. Reservation for Person With Disabilities (PWD):

Candidates claiming reservation under seats reserved for 'Persons With Disabilities (PWD)' should write 'YES' in the box. They should attach a self-attested copy of certificate issued by the District Medical Board within 3 months from the date of submission of application, showing their degree of disability, if they wish to be considered for MBBS/BDS/BAMS/BHMS/BSMS/BVSc \& AH courses and that issued within 12 months from the date of submission of application, showing their degree of disability, if they wish to be considered only for other courses. NO OTHER CERTIFICATE WILL BE ACCEPTED. The claim for this reservation will not be considered in the absence of this certificate. (See clause 5.3 also for details). If the item is not applicable please write NA.
19. Details of DD attached:

If you are opting for examination center in Dubai, an additional remittance of Rs.8500/- by way of DD as explained in Clause 7.2.2 is to be attached to the Application form.
Details of the DD enclosed may be entered in 19
20. Details of $10^{\text {th }}$ Standard Certificate: Write Register No. and year of passing.
21. Details of Income Certificate: Write annual income with name of Village, Taluk and District from where the income certificate is procured
22. List of Enclosures;

The list of enclosures attached to the Application form may be entered. (OMR data sheet, Copies of certificates, DD etc.). OMR data sheet should not be stapled or tied with the other enclosures. It should be kept separately.
Note: Candidate and parent should sign with place and date, below the declaration.

## II. INSTRUCTIONS FOR FILLING IN THE OMR DATA SHEET

Candidates are supplied with an OMR Data Sheet along with the Application Form. PLEASE ENSURE THAT THE 'APPLICATION NO.' SHOWN IN THE OMR DATA SHEET ALONG WITH THE BARCODE AND THAT SHOWN IN THE MAIN APPLICATION FORM ARE THE SAME.
IMPORTANT : THE OMR DATA SHEET IS TO BE HANDLED CAREFULLY. DO NOT FOLD THE SHEET. DO NOT PIN, TAG OR STAPLE THE OMR SHEET WITH ANY OTHER DOCUMENT.
Note: Entries against each item in the OMR Data Sheet should tally with the corresponding entries in the main application form.

## Special Instructions:-

(i) The OMR Data Sheet consists of blocks known as 'boxes' and ovals known as 'bubbles'.
(ii) First fill-in all the entries in the boxes with one letter or numeral in a box using Black ballpoint pen, and then mark the appropriate bubbles corresponding to the item, by darkening the bubbles with HB pencil.
(iii) Changing an entry:

If a candidate wishes to change any marking in 'BUBBLES' already made, he/she must ERASE completely the already darkened bubble, using a good quality eraser, and then make the fresh mark. The corresponding data in the box (es) should also be changed.

## ITEM-WISE INSTRUCTIONS TO FILL-IN THE OMR DATA SHEET

(A specimen copy of filled-in OMR Data Sheet with sample entries is given at the end of this Annexure)
Use Black ball-point pen for filling in the boxes and HB pencil for marking the bubbles.
Use BLOCK letters only while filling the boxes.

## SIDE-1

## Item 1. Name of Candidate:

Please write your name as in Class X certificate with one letter in a box with initials at the end of your name and darken the corresponding bubbles. If your name exceeds the available boxes, please abbreviate your name suitably. For example, if the candidate's name is 'Abdu Rahman Niyas Kalathingal', the name should be abbreviated by taking the initial of the least important part, such as, 'Abdu Rahman $N$ Kalathingal' or 'Abdu Rahman Niyas K' leaving one blank box between the names and initials. Do not use commas or full stop anywhere.
2. Course(s) opted for:

Darken the bubble(s) against 'YES' corresponding to the course(s) to which admission is sought for.
3. Gender: Darken the bubble against Male or Female as the case may be.
4. Nativity: Mark the appropriate bubbles corresponding to your Nativity status (a) Keralite (b) Keralite - AIS
(c) Non-Keralite (Category I) [NK I]
(d) Non-Keralite (Category II) [NK II]
5. Citizenship:

If you are an Indian citizen darken the bubble against 'Indian'. If you are a PIO Card Holder as defined in Clause 6.1 of the Prospectus, darken the bubble against PIO Card Holder. If you are an overseas citizen of India, darken the bubble against 'OCI'. Otherwise darken the bubble against 'Foreign'.
6. Date of Birth:

Write your date of birth with the date in the first two boxes, the month in next two boxes and the last two digits of the year of birth in the last two boxes. For eg., if you were born on May 3rd, 1989, please write as

7. Centre chosen for Exam:

Mark the appropriate bubble corresponding to the name of the centre where the candidate wishes to appear for the Entrance Examination(s).

| Thiruvananthapuram | TVM | Ernakulam | - | EKM | Kannur | - | KNR |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Kollam | - | KLM | Thrissur | - | TCR | Kasaragod | - | KSD |
| Pathanamthitta | - | PTA | Palakkad | - | PKD | New Delhi | - | DLH |
| Alappuzha | - | ALP | Malappuram | - | MLP | Dubai | - | DUB |
| Kottayam | - | KTM | Kozhikode | - | KKD |  |  |  |
| Idukki | - | IDK | Wyanad | - | WYD |  |  |  |

8. Communal Reservation Claim (1): [SEBC / OEC / AI / JW]

If you are claiming communal reservation under the Ezhava/Thiyya community, write E Z;
If making a claim under Muslim quota, write M U;
If making a claim under the Other Backward Hindu quota, write B H;
If making a claim under the Latin Catholic other than Anglo-Indian quota, write LC;
If making a claim under the Other Backward Christian quota, write $\mathrm{B} X$;
If making a claim under Kudumbi quota, write K U
For the above, darken the appropriate bubble also.
If making a claim under "Other Eligible Communities", darken the bubble against OE .
If making a claim under Anglo-Indian community, darken the bubble against A I, or if under Jewish community darken the bubble against J W ;
If none of the above is applicable, write N A.
Mark the appropriate bubble also.
9. Communal Reservation Claim (2): [SC/ST]

If you claim reservation under the Scheduled Castes quota, write SC. If under the Scheduled Tribes quota, write ST. If not applicable, write " NA ".
Mark the appropriate bubble also.
10. SPECIAL RESERVATION:

Note: Claims for Special Reservation should be supported by necessary certificates. If supporting certificates are not submitted with the application form, the claims will not be allowed.
Special Reservation (For Keralites only): Darken the appropriate bubble

| Reservation Claimed | Bubble to <br> be darkened |
| :--- | :---: |
| Ex-servicemen/Son or daughter of Ex-servicemen | XS |
| Sons and daughters or widows of those who have been in the Defence Service during the <br> recent hostilities, and who have lost their lives, including those missing in action and disabled <br> in action | DK |
| Son /daughter or widows of Defence Personnel who died-in-harness | HR |
| Son / daughter of serving Defence Personnel from Kerala | SD |
| Paramilitary forces quota | R P |
| MBBS/BHMS/DHMS degree/diploma holders, claiming reservation to BAMS course | O A |
| 'Degree/Diploma holder in Ayurveda' quota for MBBS | D A |
| BDS degree holder | DM |


| 'Degree/Diploma Holder in Homoeopathy' quota for MBBS | DH |
| :--- | :---: |
| 'MBBS/BAMS/BVSc/BSc(Ag)/BFSc/BSc(Forestry) degree holder' claiming reservation for <br> BHMS | O H |
| Applicant in Govt. service, claiming reservation under 'Nurse (Allopathy)' | N Q |
| Applicant in Govt. service, claiming reservation under 'Nurse (Homoeo) | N H |
| Applicant in Govt. service, claiming reservation under 'Nurse (Ayurveda) | N Y |
| 'Children of Agriculturist' quota | C A |
| 'Farm labourer' quota | F L |
| 'Children of fisherman' quota | C F |
| 'Freedom Fighter' quota | FF |
| 'Repatriate from Ceylon/ Burma' quota | C B |
| 'Scouts \& Guides' quota | S G |
| If Not Applicable | N A |

(Special reservation under SP, CC, VL, AD, LS, FA, FV, DF are not included in the list as they are based on the recommendation of the bodies concerned and inter-se merit)
11. Sanskrit.

If you have chosen Sanskrit as Second Language, for the qualifying examination and furnished proof for the same, mark the bubble against "YES".
12. Parents Inter-caste:

If you are a son or a daughter of parents, who have contracted an Inter-caste marriage and have claimed communal reservation (against item 15 in the Application Form) under Socially and Educationally Backward Classes or Scheduled Castes or Scheduled Tribes or Anglo-Indian or Jewish Community or Other Eligible Communities mark the bubble against "YES". If father is SC/ST bubble against "YES". If mother is SC/ST bubble against "YES".
13. Person with Disability:

If you have claimed reservation under the seats reserved for "Persons With Disabilities" against item 18 in the Application Form (as per clause 5.3 of the Prospectus), mark the bubble against "YES".
14. Statistics:

Statistical Data are needed for statistical study of the performance of the candidates. Such studies will help, educational planning in future, and are also necessary to make improvements in the Entrance Examination System. Candidates are advised to give correct information, as these data may also be used for processing.
Candidates have to fill in the codes for eleven items, as given below, with the code for one item in a box starting from left. The items not applicable to a candidate may be left unfilled. Mark the appropriate bubble for each item.
i. District of permanent residence:

| Thiruvananthapuram | - | A | Palakkad | - | I |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Kollam | - | B | Malappuram | - | J |
| Pathanamthitta | - | C | Kozhikode | - | K |
| Alappuzha | - | D | Wynad | - | L |
| Kottayam | - | E | Kannur | - | M |
| Idukki | - | F | Kasaragod | - | N |
| Ernakulam | - | G | Others | - | O |

ii. Parents/Guardian's occupation:

Use the following code to indicate the occupation of your Parent/Guardian. The occupation of either father, mother or guardian may be considered for filling this item.

| Agriculture | - | A | School Teacher | - | G |
| :--- | :---: | :---: | :--- | :---: | :--- |
| Business | - | B | Other Govt. Servant | - | H |
| Industrialist | - | C | Other Salaried person | - | I |
| Doctor | - | D | Petty Trade/Casual Labour | - | J |
| Engineer | - | E | Others | - | K |
| College/University teacher | - | F |  |  |  |

iii. Residential Area:

Indicate the residential area to which you belong using the following code.

| Corporation | - | A | Panchayat | - | D |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Municipality | - | B | Others | - | E |
| Township | - | C |  |  |  |

iv. Parents/Guardian's Education:

Use the following code to indicate the education of your parent/guardian. The education of either father, mother, or guardian may be considered for filling this item.

| Illiterate | - | A | Graduation | D | D |
| :--- | :--- | :--- | :--- | :--- | :--- |
| School level | - | B | Post Graduation | - | E |
| Pre-degree/Plus Two level | - | C | Professional Education | - | F |

v. Community:

Indicate the community to which the candidate belongs using the following code:

| Ezhava | - | A | Scheduled Castes | - | H |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Muslim | - | B | Scheduled Tribes | - | I |
| Other Backward Hindu | - | C | Other Eligible Communities | - | J |
| Latin Catholic | - | D | Forward Hindu | - | K |
| Converts from SC to Christianity | - | E | Forward X'ian | - | L |
| Other Backward Christian | - | F | Others | - | M |
| Kudumbi | - | G |  |  |  |

vi. No. of appearances:

If you are appearing for the Entrance Examination in Kerala, for the first time, please indicate A; for the second time, please indicate B ; for the third time, please indicate C ; and if for the fourth time or more, please indicate D .
vii. Course undergone at Secondary Level:

| SSLC(Kerala) | - | A | ISCE(CISCE) | - | D |
| :---: | :---: | :---: | :---: | :---: | :---: |
| SSLC (Outside Kerala) |  | B | Others | - | E |
| AISSCE(CBSE) |  | C |  |  |  |
| urse undergone at +2 Level: |  |  |  |  |  |
| HSE( Kerala) | - | A | AISSCE(CBSE) | - | D |
| VHSE (Kerala) | - | B | ISCE(CISCE) |  | E |
| HSE/VHSE (Outside Kerala) | - | C | Others | - | F |
| dium of Instruction at +2 Level: |  |  |  |  |  |
| Malayalam | - | A | Other Languages | - | C |
| English |  | B |  |  |  |

x. Location of School where +2 course was undergone:
Rural - A

Urban - B
xi. Annual Family income (Formal Sources):

Below Rs. 50,000 - A
Rs. 50,000 - Rs. 1 Lakh - B
$\begin{array}{lll}\text { Rs. } 2.5 \text { Lakh }-4 \text { Lakhs } & - & \text { D } \\ \text { Rs. } 4 \text { Lakh }-5 \text { Lakhs } & - & \text { E } \\ \text { Rs. } 5 \text { Lakhs \& above } & - & \text { F }\end{array}$
15. QUALIFYING EXAMINATION:

Qualifying Examination (1) :
Write the Code of the examination passed or appeared or appearing and darken the corresponding bubble.

| Higher Secondary / Pre-Degree | - | QH | THSS | - | TH |
| :--- | :--- | :--- | :--- | :--- | :--- |
| VHSE | - | QB | Others | - | OT |

AISSCE / ISCE - QC
Qualifying Examination (2) :
Write the code of any one or more of the following examinations you have passed/appearing. Diploma (Three year) in Engg. candidates can mark this item even if they are appearing for the examination whereas BSc Graduates can mark this item only if they have already passed the examination at the time of applying. Please insert the appropriate letters in the boxes.

| Diploma in Engineering | - | DE | BSc Zoology | - | ZO |
| :--- | :--- | :--- | :--- | :--- | :--- |
| BSc (Physics) | - | PH | BSc (Bio Chemistry) | - | B I |
| BSc (Chemistry) | - | CH | Not Applicable | - | NA |
| BSc Botany | - | BO |  |  |  |

16. Your Complete Mailing Address:

Write your full address for communication neatly and clearly in BLOCK LETTERS including the PIN CODE in the box provided.

## 17. MOBILE NUMBER \& LAND LINE TELEPHONE NO. :

Write your Mobile Phone No., if available and contact Telephone Number (with STD code).
18. Photograph:

Paste your recent photograph (of size $3 \mathrm{~cm} \times 4 \mathrm{~cm}$ ), identical with that pasted on the facing page of the Application Form, in the space provided. Do not attest the photograph pasted in the OMR data sheet or write anything above the Photograph.
19. Permanent Account Number (PAN) of Father

If your father has PAN write the same in the box provided.
20. Permanent Account Number (PAN) of Mother

If your mother has PAN write the same in the box provided
21. SIGNATURE: Affix your signature in the box provided.

## SIDE - 2:

## 22. Communication Address:

Write your full address for communication (excluding Name), with one letter or numeral, or special characters such as '/' (slash) or '-' (hyphen) or ',' (comma) in a box, starting from the box on left.
The communication address that you mark in the bubbles here will be read by the Scanning Machine. The Admit Card will be sent to the candidate in this address only. Hence, fill up this item carefully and correctly. Leave one bubble blank at the end of each word and a comma (.) at the end of each line of your address as shown in the specimen.
Note: There are more than 65 boxes available for writing the address. If you are not able to give your full communication address in the available boxes, fill in the address possible up to the last box, leaving the rest of your address to be completed by the Office. You have to ensure that you have furnished the full and correct communication address against item 16 on Side-1
Darken the appropriate bubbles using HB pencil.
23. PIN Code: Indicate the PIN CODE of your address for communication.
24. Telephone STD Code: Starting from the left end box, write the STD Code of the place where your telephone is installed and mark the appropriate bubbles. For example, write 0471 for Thiruvananthapuram.
25. Telephone Number: Starting from the left end box, write your telephone number and mark the appropriate bubbles.
26. State of Permanent Residence:

Indicate your native State/Union Territory or your State/Union Territory of permanent residence using the numeric code given below. If you are a foreign national, indicate the code as 37 .

| State | Numeric Code | State | Numeric Code | Union Territories \&others | Numeric Code |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Andhra Pradesh | 1 | Maharashtra | 16 | Andaman \& Nicobar Islands | 30 |
| Arunachal Pradesh | 2 | Manipur | 17 | Chandigarh | 31 |
| Assam | 3 | Meghalaya | 18 | Dadra \& Nagar Haveli | 32 |
| Bihar | 4 | Mizoram | 19 | Daman \& Diu | 33 |
| Chattisgarh | 5 | Nagaland | 20 | Lakshadweep | 34 |
| Delhi (National Capital Region) | 6 | Orissa | 21 | Puducherry | 35 |
| Goa | 7 | Punjab | 22 | PIO/OCI Card Holder | 36 |
| Gujarat | 8 | Rajasthan | 23 | Foreign National. | 37 |
| Haryana | 9 | Sikkim | 24 |  |  |
| Himachal Pradesh | 10 | Tamil Nadu | 25 |  |  |
| Jammu \& Kashmir | 11 | Tripura | 26 |  |  |
| Jharkhand | 12 | Uttar Pradesh | 27 |  |  |
| Karnataka | 13 | Uttaranchal | 28 |  |  |
| Kerala | 14 | West Bengal | 29 |  |  |
| Madhya Pradesh | 15 |  |  |  |  |

27. Address Status: If you were able to give your full communication address in item 22, darken bubble against 'YES' or else, darken the bubble against "NO".
28. Candidate and Parent to sign with place and date, below the declaration.



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(SEBC)

- $\mathbf{2 6 \%}$
(a) ஜறழவ (EZ) - 9\%
(b) - -





（a）வรी毋ஜวாา（SC）－ $8 \%$
（b）よรी毋வனળ๐（ST）－ $2 \%$






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## 6.1 ๕றмо：




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### 9.6.2 ๙ைพัดிกั้ கைனิพృృகலิ


















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## 9.7 กอยเロவృวกำ













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### 10.3.4 Фృவை ఆ๐าఱากั้ :










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| :---: | :---: | :---: | :---: |
| i | 『மிலூ○） | XS | ENGG，MBBS，BHMS，BAMS |
| ii |  | SD | ENGG，MBBS，BHMS，BAMS， B．Sc Hons．（Ag），BVSc \＆AH |
| iii |  <br>  <br>  <br>  | DK | ENGG，MBBS，BDS，BVSc \＆AH，BFSc， B．Sc Hons．（Ag） |
| iv |  <br>  <br>  | HR | ENGG，MBBS，BDS，B．Sc Hons．（Ag），BFSc， <br>  <br>  |
| v |  <br>  <br>  <br>  | RP | ENGG |
| vi |  | AI | MBBS，BDS |
| vii |  | JW／AI | ENGG，BVSc \＆AH |
| viii |  | OA | BAMS |
| ix |  | DA | MBBS |
| x |  | DH | MBBS |
| xi | MBBS／BAMS／BVSc \＆AH／BSc（Ag）／BFSc／BSc（Forestry）wl（બ） カ๑๐ळ | OH | BHMS |
| xii |  | DM | MBBS |
| xiii | กゲก | NQ | MBBS |
| xiv |  | NH | BHMS |
| xv |  | NY | BAMS |
| xvi |  | CA | B．Sc Hons．（Ag），BVSc \＆AH |
| xvii |  | FL | B．Sc Hons．（Ag），BVSc \＆AH |
| xviii |  | CF | BFSc |
| xix |  | FF | B．Sc Hons．（Forestry） |
| XX |  | CB | B．Sc Hons．（Ag），BVSc \＆AH |
| xxi |  | SG | ENGG |
| xxii |  <br>  <br>  | $\begin{aligned} & \text { VL/AD/ } \\ & \text { LS / } \\ & \text { FA/ FV } \end{aligned}$ | B．Sc Hons．（Ag）／BVSc \＆AH／B．Tech （Ag．Engg）／B．Tech（D．Sc Tech）as applicable |
| xxiii |  | DF | B．Tech（Dairy Science \＆Tech．） |


| xxiv |  | SP | ENGG, MBBS, BDS, B.Sc Hons. Forestry, BHMS, BAMS, B.Sc Hons. (Ag), BFSc, BVSc \& AH |
| :---: | :---: | :---: | :---: |
| xxv | NCC ¢ヵைOS | CC | ENGG, MBBS, BDS, BHMS, BAMS, BVSc\& AH |




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[^0]:    3. Government Dental Colleges (BDS Code : MD)
[^1]:    he list is not final. The final list of Institutions will be published before the Allotment Process.

    * Allotments from the State Rank List to Self financing Colleges will be subject to Clause 1.6 and 2.2

[^2]:    * Total seats including those under Nominations/Special Reservations/ICAR \& VCI category, etc.
    ** The number of seats for BVSc \& AH is subject to change as per direction from Veterinary Council of India.

[^3]:    * Strike whichever is not applicable.

