

INFORMATION BULLETIN

For

Bachelor Degree Programmes

ICAR's

**21st ALL INDIA ENTRANCE EXAMINATION FOR ADMISSION (AIEEA-UG-2016)
TO 15% SEATS IN BACHELOR DEGREE PROGRAMMES AND AWARD OF
NATIONAL TALENT SCHOLARSHIPS IN AGRICULTURE & ALLIED SCIENCE
SUBJECTS (OTHER THAN VETERINARY SCIENCE) IN AGRICULTURAL
UNIVERSITIES AND 15% SEATS IN DAIRY TECHNOLOGY AT NDRI KARNAL**

**FOR ACADEMIC SESSION
2016–17**

(AIEEA-UG-2016)



Agricultural Education Division
Indian Council of Agricultural Research
Krishi Anusandhan Bhavan II
Pusa, New Delhi-110 012
www.icar.org.in

**INDIAN COUNCIL OF AGRICULTURAL RESEARCH
(AGRICULTURAL EDUCATION DIVISION)
KRISHI ANUSANDHAN BHAVAN-II PUSA, NEW DELHI 110 012**

The Deputy Director General (Agricultural Education)
Indian Council of Agricultural Research
KrishiAnusandhanBhavan-II
Pusa, New Delhi -110 012

Assistant Director General (HRD)/
Controller of Examinations (Agril. Edn, COE)
Examination Cell, Agricultural Education Division,
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KrishiAnusandhanBhavan-II
Pusa, New Delhi -110 012
Help Desk Phone No: 011-25843392
Fax No.: 011-25843329

ALL CORRESPONDENCE REGARDING ADMISSION SHOULD BE ADDRESSED TO THE ASSISTANT DIRECTOR GENERAL (HRD)/CONTROLLER OF EXAMINATIONS (AGRIL. EDN), AGRICULTURAL EDUCATION DIVISION, ICAR, KRISHI ANUSANDHAN BHAVAN-II, PUSA, NEW DELHI - 110 012.

(This Information Bulletin should not be treated as a legal document)

Mode of Application:

Application will be received through online mode only. In no other form, the applications will be entertained. For details please refer Item No. 8.1 (B) in the Information Bulletin. Application fee of Rs.500/- for General, OBC & UPS Categories and Rs.250/- for SC, ST and PC Categories with additional Payment Gateway charges plus service tax, as applicable will be chargeable.

IMPORTANT DATES

Event	Date
Date and Time of Examination	21.05.2016 (Saturday) 10:00 A.M to 12:30 P.M. (2 ½ hrs)
Commencement of Online Application submission	15.04.2016 (Friday)
Last date of online application	30.04.2016 (Saturday up to 11.59 P.M.)
Last date for successful final transaction of fee applicable for online application registered on or before 30.04.2016	02.05.2016 (upto working hours of the banks)
Last date for receipt of hard copy of computer generated confirmation page of online application (from non-remote areas)	30.04.2016
Last date for receipt of hard copy of computer generated confirmation page of online application (from remote areas)	04.05.2016
e-Admit card information (on ICAR website)	by 2 nd week of May, 2016
Declaration of result	10 th June, 2016 (Tentative)
Schedule for Counseling/Personal Appearance	25.06.2016 - 07.07.2016 (Tentative)

(There will be offline counseling only)

All announcements, including e-Admit card information, declaration of result, offline counseling schedule, general notices, etc., will be available on Internet at the ICAR website www.icar.org.in. Candidates are advised in their own interest to remain in touch with the website or contact on telephone or the Nodal Officer of the Examination City Centre (for Exam Centre & Roll No. only).

NOTE: Office of COE may be contacted on any working day on telephone 011-25843392 between 10.00 A.M. to 5.00 P.M.

DIRECTIONS TO CANDIDATE

1. Day and Date of Examination : Saturday, the 21st May, 2016
2. Duration : 2½ hrs (10.00 AM to 12.30 PM)

Online Application and downloadable Information Bulletin will be available on ICAR website.

3. Before mailing hard copy of computer generated confirmation page from online application complete in all respect, check that ICAR's copy of challan (duly stamped by bank) if making payment through bank challan or photo copy of the bank's challan bearing the UTR No. (if making payment through NEFT) has been attached.
Online Application and downloadable prospectus will be available on ICAR website. For acquainting the candidates with this technique and practicing, a Demo Online application form will be available. Candidate has to visit www.icar.org.in and click the option of filling online application AIEEA-UG-2016 as per the given instructions.
By 2nd week of May, 2016, e-Admit Card containing information regarding Roll Number, Center and Venue of Examination, etc., would be downloadable from the ICAR website by providing the Application Number and Date of Birth.
4. Incomplete/mutilated hard copy of computer generated confirmation copy of Application with unclear photograph or copy having overwriting or non-payment of requisite fee amount or amount lesser than prescribed fee shall be summarily rejected and no correspondence in this regard shall be entertained.
5. Request for change in any particulars once given in the Application shall not be entertained.
6. Admission of a candidate to the entrance examination is provisional subject to his/her being found otherwise eligible for admission to the course concerned by the admitting university.
7. Candidates are advised to retain at least three identical colour photograph with name and datesame as uploaded on the application for subsequent use at the time of admission.
8. A candidate is allowed to submit only one application. If a candidate submits more than one application, his/her candidature shall be cancelled.
9. If a candidate belongs to General /OBC/UPS category mentions his category as SC/ ST/PC in the application by mistake or otherwise and claims after closure of the last date of online application process that he actually belongs to General /OBC/UPS category, then the claim of such candidates shall not be entertained and their application shall be summarily rejected on the grounds of underpayment of fee.
10. Application should be sent through Speed/Registered post only **and the applications sent through any other mode like private courier service, fax, e-mail, etc. shall not be entertained.** Hard copy of Application should be dispatched well in advance so as to reach on or before 30.04.2016 from non-remote areas and 04.05.2016 from remote areas.
11. Council shall not be responsible for any postal delay/loss in transit in respect of submission of hard copy of Application, etc.
12. Candidates are advised to retain a photocopy of the Application for their personal record. It may be used at any time in support of having submitted application and also retain a copy of Post Office receipt as a proof for dispatch of hard copy of application through Registered Post or Speed Post.
13. Ragging in any form inside or outside the campuses is strictly prohibited.
14. Use or attempt to use unfair means of any kind for this examination including impersonation will automatically lead to the cancellation of candidature at any stage besides taking the legal action as deemed fit.
15. Candidates may seek any information as per scheduled date and time only.
16. **The records of the AICE-SRF (PGS) Examination shall be preserved for the period as specified in the Record Retention Schedule of the Council.**

Postal Address:

Controller of Examinations (Agril. Edn)
Examination Cell, Agricultural Education Division
Indian Council of Agricultural Research
Room No. 216, KrishiAnusandhanBhavan-II
Pusa, New Delhi 110 012

Contact Number:

Help Desk Phone No: 011-25843392

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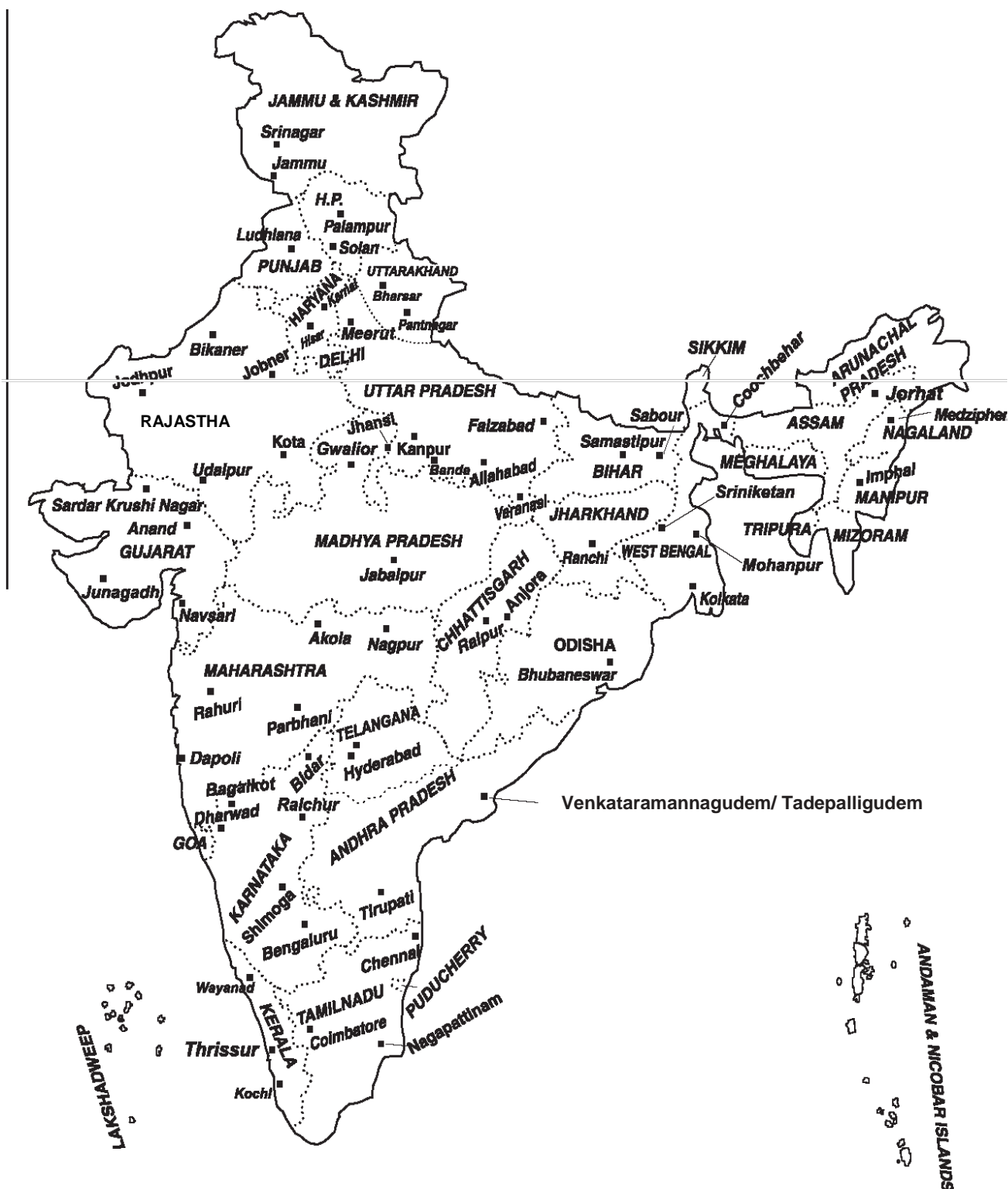
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Scope of Agricultural Education

Agriculture has been the mainstay of Indian economy since ages. The science and art of agriculture has many references in the Vedic literature and the ancient history of the mankind. The agriculture sector in India provides livelihood to about 52% of the population of the country and contributes about 15% to the Gross Domestic Product. Trained human resource has been the key factor behind the Green Revolution, White Revolution, Yellow Revolution, that has led India to become self-reliant in food and becoming a fast developing economy. Knowledge based, input-use efficient, eco-friendly, and high tech precision agriculture has been the next stage for which efforts have been directed by Indian Council of Agricultural Research (ICAR) and Agricultural Universities (AUs) in planning, designing and executing the national agricultural educational programmes. Considering the importance of Agricultural Education, University Education Commission under the Chairmanship of Dr. S. Radhakrishnan, recommended the establishment of independent Rural Universities in the country in the year 1948. As a result of this recommendation, first State Agricultural University (SAU) was established in 1960 at Pantnagar (Nainital) on the pattern of the Land Grant Colleges of the United States. The University Grants Commission accorded the status of Deemed-to-be-University (DU) to Indian Agricultural Research Institute, New Delhi in 1958 which became the first ICAR Institute as Deemed University conducting postgraduate teaching and research. Today, the country has a large ICAR-AU system with a total of 73 Agricultural Universities (AUs) comprising of 62 State Agricultural, Veterinary, Horticulture, and Fisheries Universities, 2 Central Agricultural Universities i.e. CAU, Imphal and RLBCAU, Jhansi, 4 ICAR-DUs (IARI, IVRI, NDRI and CIFE), 4 Central Universities having agricultural faculty (BHU, AMU, ViswaBharati and Nagaland University) and 1 Sam Higginbottom Institute of Agriculture, Technology & Sciences (SHIATS), Allahabad (formerly Allahabad Agricultural Institute) awarding various kinds of degrees in different disciplines of agricultural, veterinary and allied sciences. Agricultural education is also imparted in some traditional universities of the country. Agricultural education system is producing invaluable human resource and every year about 15,000 graduates, 11,000 Masters and 2,500 Ph.D.s are admitted. The Under Graduate degree in 11 subjects of agriculture and allied sciences and Master's degree in about 95 subjects, awarded by the Universities associated with the ICAR are well recognized and accepted for higher education globally. Some of the graduates also start their own business units including the Agri. Clinics and Agro Service Centres. Following are some of the sectors providing placement to the agricultural graduates:-

- (i) Development Departments of Central and State Governments
- (ii) Commercial Banks and Insurance Sector
- (iii) Area development/ watershed development agencies including NGOs
- (iv) Industry dealing with fertilizers and plant nutrients
- (v) Plant protection chemicals, insecticides and pesticides manufacturing and marketing companies
- (vi) Organizations dealing in seeds and planting materials
- (vii) Industries dealing with Ag. Machinery, Sericulture, Horticulture, Fisheries, Dairy, etc.
- (viii) Manufacturers and suppliers of irrigation systems
- (ix) Agricultural products processing industry
- (x) Multi-nationals dealing with production, field evaluation, and marketing of agricultural inputs including export marketing and consultancy services.

The growth achieved in agricultural sector has been attributed to the concerted efforts of skilled human resource developed through AES. After independence, from the state of deficiency, country has reached to the stage of self-sufficiency in food grain production. It has enabled the country to increase production of food grains by 4-fold, horticultural crops by 6-fold, fish by 9-fold (marine 5-fold and inland 17-fold), milk by 6-fold, and eggs by 27-fold since 1950-51; thus making a visible impact on the national food and nutritional security.

The interest of girl candidates towards agricultural education is rising and during 2015 about 37% female candidates were admitted through AIEEA-UG. Presently, efforts are being directed by the ICAR and Agricultural Universities to impart necessary skills and confidence among agricultural graduates to start and operate their own business units through first-hand experience of running Model Farms and Pilot-Plants during the course of study. Experiential learning, Rural Agricultural Work Experience are some special features of agricultural education in the country. ICAR provides annual grants to AUs for infrastructural development, scholarships/fellowship schemes and monitoring system through Accreditation norms for quality assurance. Besides, the teaching quality is also stressed through continuous national and international training programmes for the faculty. In summary, Agricultural Education could be termed as one of the most relevant education in the country for growth and sustainable development. The ICAR and associated Agricultural Universities would like to congratulate you for choosing the area of agricultural sciences for your education and career and wish all the success in your life.

ICAR'S 21st ALL INDIA ENTRANCE EXAMINATION FOR ADMISSION (AIEEA-UG-2016) TO 15% SEATS IN BACHELOR DEGREE PROGRAMMES AND AWARD OF NATIONAL TALENT SCHOLARSHIPS IN AGRICULTURE & ALLIED SCIENCE SUBJECTS (OTHER THAN VETERINARY SCIENCE) IN AGRICULTURAL UNIVERSITIES AND 15% SEATS IN DAIRY TECHNOLOGY AT NDRI KARNAL FOR ACADEMIC SESSION 2016–17

1.0 INTRODUCTION

Triggered primarily by professional and academic linkage with Agricultural Universities, Indian Council of Agricultural Research (ICAR), New Delhi has been able to foster a countrywide arrangement with the AUs to set aside 15% of their seats for Bachelor degree programmes to be admitted through ICAR's All India Entrance Examination so as to reduce inbreeding, increase mobility among students, encourage national integration and infuse merit and uniform examination standards leading to improved overall quality of agricultural education. Accordingly, ICAR conducts All India Entrance Examination for Admission (AIEEA) to Bachelor degree programmes in agriculture and allied subjects, other than veterinary sciences, at Agricultural Universities on 15% of the University seats every year. The 100% seats of RLBCAU, Jhansi are filled up through AIEEA. For NDRI, Karnal, an ICAR-Deemed-to-be-University, from this Academic Session 15% seats will be filled up through the above examination. National Talent Scholarships (NTS) are awarded based on the AIEEA-UG examination to all those candidates who take admission outside their state of domicile. Further, not more than 40% candidates from any one state are admitted in any agricultural university/subject. ICAR's 21st AIEEA-UG-2016 examination for the academic session 2016-17 will be conducted at 49 examination city centres spread all over the country, enabling participation of a large number of candidates seeking admission in Bachelor degree programmes in AUs in different disciplines. Only candidates declared qualified for counseling will be considered for allocation of subject and the Agricultural University. **There is no direct nomination for admission through ICAR in any Bachelor degree programme without qualifying in this examination.**

2.0 DEGREE PROGRAMMES AVAILABLE FOR ADMISSION

Admission to 11 Bachelor degree programmes of four years duration in the subjects of: (i) Agriculture (ii) Horticulture (iii) Fisheries (iv) Forestry (v) Home Science (vi) Sericulture (vii) Biotechnology (viii) Agricultural Engineering (ix) Dairy Technology (x) Food Science and (xi) Agricultural Marketing & Cooperation etc. is available to Indian Nationals based on merit-rank in ICAR's All India Entrance Examination. For the purpose of Entrance Examination, above 11 degree programmes are categorized into two Streams viz. **Stream-A: Agriculture/Biology** and **Stream-B: Mathematics**. The candidate has a right to exercise option only for one Stream at the time of submitting the application. The option once exercised cannot be changed subsequently.

2.1 STREAM-A (Agriculture/Biology): Candidates under this stream can seek admission for Bachelor degree programmes in Agriculture, Horticulture, Fisheries, Forestry, Home Science, Sericulture, Food Science, and Biotechnology.

2.2 STREAM-B (Mathematics): Candidates under this stream can seek admission for Bachelor degree programmes in Agricultural Engineering, Dairy Technology, Agricultural Marketing & Co-operation and also in Forestry, Food Science and Biotechnology at some of the Agricultural Universities provided Biology has been one of the subjects during 10+2 examination.

2.3 Stream-wise Courses Available for Admission and Subjects to be Attempted in the Examination

Degree Programme for Admission	Code No.	Subjects which the candidate must have passed in 10+2 Examination	Subjects to be attempted the Entrance Examination	Remark
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2.3.1. STREAM – A (AGRICULTURE/BIOLOGY)

1.	Agriculture	01	PCB/PCMB/PCA/ Inter (Agri.) with PC/Inter (Agri.)*	PCB/PCA	
2.	Horticulture	02	PCB/PCMB/PCA/ Inter (Agri.) PCA/ Inter (Agri.) with PC	PCB/PCA	
3.	Fisheries	03	PCB/PCMB/PCA/ Inter (Agri.) with PC	PCB/PCA	
4.	Forestry	04	PCB/PCMB	PCB	Medical fitness may be required by some universities.
5.	Home Science	05	PCB/PCMB/ PCA/PCH/ Inter (Agri.) with PC**	PCB/PCA	

6	Sericulture	06	PCB/PCMB/ PCA/ Inter (Agri.) with PC	PCB/PCA	
7.	Bio- technology	07	PCB/PCMB/ PCA/ Inter (Agri.) with PC	PCB/PCA	

2.3.2 STREAM– B (MATHEMATICS)

8.	Agricultural Engineering	08	PCM/PCMB	PCM	
9.	Dairy Technology	09	PCM/PCMB	PCM	
10.	Food Science	10	PCM/PCMB	PCM	
11.	Agricultural Marketing & Co-operation	11	PCMB/PCM	PCM	

P = PHYSICS

C = CHEMISTRY

B = BIOLOGY

M = MATHEMATICS

A = AGRICULTURE

H = HOME SCIENCE

Note: (i) A candidate from **Stream–A** can also exercise option for admission to Food Science, Agricultural Marketing & Co-operation whereas candidate from **Stream-B** can also opt for admission in Forestry or Biotechnology in few universities.

(ii) The efforts are on to have uniform criteria and eligibility for admissions in all the Agricultural Universities, however, some of the Universities may have different criteria/nomenclature of degree programmes.

3.0 ELIGIBILITY REQUIREMENTS

3.1 Age and Nationality

Indian Nationals of at least 16 years of age as on 31.08.2016 are eligible to apply for the examination.

3.2 Qualifying Examination

3.2.1(i) Candidate must have passed 10+2 Senior Secondary Examination of the Central Board of Secondary Education or any other examination within scope and standard found to be equivalent to the Senior Secondary Examination of a recognised Indian Board after a period of 12 years of study. The last two years of such 10+2 examination should have papers in Physics, Chemistry and any one of the subjects from Biology/ Mathematics/ Agriculture* /Home Science**. Besides, for admission in the Universities specifically located in non-Hindi speaking areas, candidate must have passed English as a core subject in 10+2 examination.

* Intermediate with Agriculture and having not studied Physics and Chemistry as separate subjects may also be eligible for admission in some SAUs in the State of Chhattisgarh, Madhya Pradesh, Rajasthan, Uttarakhand and Uttar Pradesh.

** Intermediate with Home Science would be eligible for admission in limited AUs in Home Science.

(ii) (a) Candidate must have passed any one of the qualifying examinations enumerated above securing not less than 50% marks in aggregate for General, OBC and UPS categories and 40% marks in aggregate for SC, ST and PC categories.

(b) Candidate having a compartment/ supplementary in any of the subjects will not be eligible unless proof of having cleared the examination with requisite percentage as in 3.2.1(ii)(a) above is available.

3.2.2 Candidate appearing in the qualifying examination enumerated above, can also apply but would be required to submit evidence of having satisfied the conditions in **3.2.1** (i) & (ii), latest by the counseling date, as otherwise the candidature will be automatically cancelled.

3.2.3 Candidates opting for **Stream-A** in the entrance examination should have passed 10+2 examination enumerated above necessarily with Physics, Chemistry and Biology/Agriculture/Home Science subjects whereas those opting for **Stream-B** should have passed 10+2 examination necessarily with Physics, Chemistry and Mathematics subjects.

Note: While submitting application, candidate must ensure that he/she fulfills the eligibility criteria in entirety.

4.0 UNIVERSITY-WISE AND SUBJECT-WISE NUMBER OF SEATS AVAILABLE FOR ADMISSION

Number of ICAR seats (tentative) available for admission in Agricultural Universities through this examination in different subjects for the academic session 2016–17 are given in **ANNEXURE-II**. It has been decided by the Council that filling of 15% seats in UG programmes in Agricultural Universities through ICARs Entrance Examination may not be allowed for non-accredited colleges w.e.f. Academic Year 2016-17 excluding RLBCAU Jhansi. Exact seat position would be known only on the counseling date.

5.0 RESERVATION OF SEATS FOR SC, ST, PC, UPS and OBC

5.1 SCHEDULED CASTE/ SCHEDULED TRIBE/ PHYSICALLY CHALLENGED/ OTHER BACKWARD CLASSES

- (i) There would be reservation of seats to the extent of 15% for Scheduled Caste and 7.5% for Scheduled Tribe candidates in different subjects. The reservation of seats among SC/ST categories is interchangeable, i.e., if sufficient number of candidates are not available to fill up seats reserved for ST candidates, these can be filled up from among suitable SC candidates and vice-versa in a given subject as per merit-rank in examination. The original SC/ST certificate in prescribed form (**ANNEXURE-IV**) is required to be produced for verification. Depending on merit and choice, they can also take seat from the General Category.
- (ii) Three percent seats are also reserved, **horizontally across the categories** in different subjects, for Physically Challenged (PC) candidates suffering from low vision, hearing impairment, locomotors disability or cerebral palsy with appropriate medical certificate having at least 40% disability and found suitable by the Counseling Committee/University official. The candidate applying for admission under this category should submit a copy of the certificate about being handicapped from a Govt. Hospital/Medical Board (duly attested by a Gazetted Officer) at the time of counseling. The criteria for assessing the degree of handicap could be variable from one subject to another. The decision of the University allotted will be final in this regard.
- (iii) Reservation for candidates belonging to OBC category will be given only at NDRI, Karnal; Nagaland University SASARD, Medziphema; BHU; CAUs; ViswaBharati (PSB) as per Government of India directives applicable at the time of counseling and Hon'ble SC order and as per seat positions communicated by the University concerned (specimen copy of Central OBC certificate can be seen at **ANNEXURE-V**).

5.2 RESERVATION FOR REMOTE AND UNDER PRIVILEGED STATES/UTs (UPS)

Two percent seats under each subjects would be reserved, **horizontally across categories** for the candidates of the remote and Under Privileged States/ UTs namely (i) Andaman & Nicobar Islands, (ii) Arunachal Pradesh, (iii) Dadra and Nagar Haveli, (iv) Daman & Diu, (v) Goa, (vi) Lakshadweep, (vii) Manipur, (viii) Meghalaya, (ix) Mizoram, (x) Nagaland, (xi) Sikkim and (xii) Tripura where educational facilities in agriculture and allied science subjects either do not exist or have no SAU(s) and who qualify this examination. UPS candidates will have to produce domicile certificate issued by the competent authority at the time of counseling. There will not be any State quota within this quota.

6.0 ICAR NATIONAL TALENT SCHOLARSHIP (NTS)

National Talent Scholarship would be available through the Agricultural University concerned, to every student admitted on ICAR seat at any Agricultural University, at the rate of Rs. 2,000/- per month during the period of study provided the student:

- (i) Joins an Agricultural University in a State outside his/her Domicile State.
- (ii) Has not changed the University/subject allotted for any reason.
- (iii) Has not been admitted against any vacant seat through waitlist option as per his/her request
- (iv) Maintains good conduct and satisfactory academic performance (**7.00 OGPA**) throughout the period of study.
- (v) Does not fail in any course/unit during the period of study.

7.0 GENERAL SCHEME OF ENTRANCE EXAMINATION

7.1 Examination Schedule

- | | |
|---------------------------------|--|
| (i) DATE OF EXAMINATION: | SATURDAY, the 21 May, 2016 |
| (ii) DURATION: | 2½ hours, Time 10.00 A.M. to 12:30 P.M. |

7.2 Subject Streams, Question Paper and Writing Answers in the Examination

- (i) The examination shall be conducted in one of the two subject streams namely '**Stream-A**' comprising of Physics, Chemistry and Agriculture/Biology subjects and '**STREAM-B**' comprising of Physics, Chemistry and Mathematics subjects.
- (ii) Questions for Physics and Chemistry subjects shall be common for both subject streams.

- (iii) Paper for '**Stream–A**' shall carry questions on Biology as well as Agriculture subject, out of which the candidate has to attempt/opt/choose only one subject, either Biology or Agriculture. '**Stream–B**' paper carries questions on Mathematics subject.
- (iv) Question paper will have 180 multiple-choice objective type questions, each with four options, 60 questions in Physics, serially numbered from 1-60, 60 questions in Chemistry, numbering from 61-120 and 60 questions in Agriculture/Biology/Mathematics, numbering from 121-180.
- (v) **Marking Scheme:** Each correctly answered question will earn four marks, with a maximum of 720 marks for the paper. **For each incorrect answer one mark will be deducted from the total score.** Question with no response indicated will not be awarded any mark and there will be no negative marking for that question. The candidates are advised not to attempt such questions in the OMR answer sheet, for which they are not sure of the correct answer. More than one answer indicated against a question will be deemed as incorrect answer and will invite negative marking.
- (vi) Candidate will be required to choose the correct answer and mark in the OMR answer sheet by darkening the corresponding circle/bubble against the serial number of the question with black/ blue ball-point pen.
- (vii) Question paper for the examination shall be bilingual, i.e., in **ENGLISH and HINDI**. In case of any variation in English and Hindi versions of question(s), English version will be taken as the final and correct version.
- (viii) **Syllabus for the Examination** is given at **ANNEXURE-I**.
- (ix) A visually challenged (blind) candidate, can request for the services of amanuensis (scribe) who must be one grade junior in academic qualification i.e. not more than X / Matriculation pass in the present case and should not be related to the candidate. For amanuensis, the candidate must submit a separate request letter, at least one week in advance, to the concerned Nodal Officer of the Examination City Centre giving a copy of the PD/PC certificate issued by a competent authority. The services of amanuensis (Scribe) who should be from academic discipline other than that of the candidate, shall be provided free of cost by the Nodal Officer. The scribe will have to give a suitable undertaking, confirming that the scribe fulfills all the stipulated eligibility criteria for a scribe as mentioned above. In case later on it is proved that candidate has suppressed material facts, the candidature of the applicant will stand cancelled, irrespective of the outcome of result of the written test. Such candidates who use a scribe shall be eligible for extra time of 50 minutes during examination.

7.3 Examination City Centres

- (i) A list of Examination City Centres with numeric codes and the contact addresses of Nodal Officer at those cities is given in **ANNEXURE–VI**.
- (ii) Candidate must fill the code number for the Examination City Centre from where he/she opts to appear for the Examination. ICAR can change/shift the examination city center opted by the candidate to another nearby center, if number of candidates are more at any examination city center.
- (iii) **Examination City Centre, once opted, shall not be allowed to be changed later on by the candidates. The e-Admit Card will be uploaded on ICAR website www.icar.org.in. In case of any problem related to e-Admit card, please contact COE (Agril. Edn.) or concerned Nodal Officer on telephone after second week of May, 2016.**

7.4 Ensuring Eligibility Requirements are Satisfied: Candidate should fill-up the **online** Application Form with due care and must ensure that he/she fulfills the eligibility requirements for the examination as well as admission as detailed therein. No certificates are required to be attached with the Application at the time of online submission of Application. Eligibility of the candidate for the examination and admission later on is not checked until the date of counseling/personal appearance of the candidate when the related documents are checked and verified. In case of admission through wait list, the documents / certificates etc. will be checked directly at the time of admission in the admitting university. In case the candidate is found not-eligible at any stage, his/her candidature would be summarily rejected and admission will be cancelled.

7.5 Options for Agricultural University/ Subject for Admission: Candidates are not required to give any option for admission in any Agricultural University/subjects at the time of online filling up of application form. The admission/allotment of seats in the Agricultural Universities will be made through personal appearance/ counseling in accordance with the choice made by the candidate in the Counseling Form, and as per the seats available at his/her merit-rank within the Stream in which he/she appeared for the Entrance Examination.

7.6 e-Admit Card: The e-Admit Card will be uploaded on ICAR website during specified period. This copy of Admit Card must be duly attested by Principal of the School/College last attended or a Gazetted Officer and brought to

the Examination Hall for appearing in the examination. **Candidate may note that without the attestation of photo as well as signature and putting thumb impression of the candidate on e-Admit card, candidate will not be allowed to appear in the examination.** Candidate is advised to preserve this e-Admit card till completion of counseling and admission process in the allotted Agricultural University. In case of any difficulty in obtaining the roll number/examination venue from the ICAR website, the candidate is advised to contact the Nodal Officer of the respective Examination City center, two days before the scheduled examination date (see **ANNEXURE-VI** for contact details of Nodal Officers).

7.7 Evaluation and Declaration of Result

- (i) OMR answer sheets of the candidates shall be scanned through computer/scanner and evaluated through computer by matching the OMR answer sheet responses of the candidate with the Stream-wise (Stream-A/ Stream-B), optional subject-wise (Agriculture/Biology/ Mathematics) and Series-wise (Series-1/ Series-2) Answer Key templates prepared beforehand. Overall merit-rank list shall be prepared separately for both subject streams. In the event of candidates getting equal marks in the Entrance Examination, relative merit will be determined on the basis of marks obtained in the compulsory subjects (Physics and Chemistry) in AIEEA-UG Examination. In the event of tie again, a candidate, higher in age, would be rated higher in merit. **Category-wise final merit list for counseling shall be prepared based on the reservation category information given by the candidate in OMR Answer sheet.**
- (ii) The result of the AIEEA-UG-2016 is likely to be declared by second **week of June, 2016 and will be placed on ICAR website.** The copies of the result will also be displayed at the Examination Cell of the Indian Council of Agricultural Research, KrishiAnusandhanBhavan-II, Pusa, New Delhi-110 012.
- (iii) The result of the entrance examination would be available in terms of **overall merit-rank and category rank** obtained by the candidates qualified for counseling.
- (iv) All announcements related to the conduct of entrance examination including, issue of examination notification, e-Admit card information, examination result, offline counseling, general notices, etc., would be posted regularly and available on the ICAR website. **The candidates are advised to be vigilant about the announcements on the ICAR website as the ICAR would not be held responsible for non-receipt of any information/ letter by post or otherwise.**
- (v) No separate intimation about the non-selection of the candidate in AIEEA-UG-2016 Examination nor marks obtained therein, will be sent to the candidate and no correspondence (Letter/ Fax/ e-mail etc.) in this regard will be entertained.

7.8 No Re-Checking/ Re-Evaluation of OMR Answer Sheets: No representation for re-evaluation / rechecking shall be entertained as answer sheets of the entrance examination are in the format of OMR sheets which are evaluated through computerized scanning / processing. However, the candidate may be allowed to inspect his / her own OMR answer sheet along with answer key or given a copy thereof, if such representation / request is submitted by the candidate in his or her own hand writing and signature **within 10 days** from the date of declaration of result on ICAR website along with a copy of admit card, hard copy of online application form and Demand Draft of Rs.500/- (Rupees five hundred only) drawn in favour of "Secretary, ICAR Education Division, Revolving Fund" payable at New Delhi.

7.9 Admission through ICAR Examination

- (i) Based on the overall merit-rank, the candidate is allowed to take admission in a specific degree programme at an Agricultural University as per his/her choice and availability of seat at that merit-rank through a process of counseling as explained **at item 9.0.** In the matter of allotment/admission of candidates to respective Agricultural Universities, the decision of the ICAR/Agricultural University concerned shall be final. Once a candidate accepts admission /joins an Agricultural University, he/she will be a bonafide student of that Agricultural University and would, thereafter, be governed by all the academic rules/regulations including migration, as applicable at that university. ICAR will not entertain any direct request from the candidates in any such matters thereafter.
- (ii) Once recommendation for admission is finalized, change in the placement of subject/university or transfer/migration would not be permissible under any circumstances. ICAR will have no responsibility for change of subject/university after the counseling. No correspondence in this respect will be entertained. Canvassing of any kind may invite cancellation of admission.
- (iii) Candidate selected for admission through All India Entrance Examination for Admission, conducted by ICAR, may seek admission only during the session for which the Examination has been conducted. He/she will not

be entitled for admission in subsequent sessions and thus cannot claim for seat allotment in other sessions/years based on this year's examination.

- (iv) Female candidates admitted through this examination on ICAR seats should be accommodated, to the extent possible, in the main campus of the University or in the campus located in a major city where there are adequate facilities for the stay of female students.
- (v) In case, at any stage, the documents submitted by the candidate are found to be fake/ forged, admission of the candidate will be forfeited and he/she shall be liable for consequential legal action.
- (vi) If any candidate/person engages in act(s) that might possibly lead to the leakage of question paper(s), or attempt to use or help in the use of unfair means in the examination, he/she will be liable to legal action under the Indian Penal Code, and his/her candidature would be forfeited.
- (vii) Any external pressure/canvassing by any candidate for admission will be treated as disqualification and would invite cancellation of admission.

7.10 Legal Jurisdiction: All disputes pertaining to the conduct of this examination and any other issue relating to All India Entrance Examination conducted by ICAR, shall fall within the jurisdiction of Delhi Courts only. As per Rules and Bye-laws of ICAR Society, it may sue or be sued in the name of Secretary, ICAR.

NOTE: Students are severely warned not to indulge in any kind of ragging inside or outside the campus of any educational institution. Severe disciplinary/criminal action will be taken by the concerned institution against the students/persons found to be indulging in ragging.

8.0 INSTRUCTIONS TO CANDIDATES

8.1 Filling of Online Application Form

- (i) A candidate can apply for examination in only one Subject Stream (**A or B**). No change would be allowed thereafter. Choice of degree programmes for admission will be available at the time of offline counseling based on availability of seats, and merit rank of the candidate. **This Application number, Subject Stream (A or B) for examination, the Examination City Centre chosen and the Sex, must be quoted in all future correspondences.**
- (ii) Online application, filled-in correctly and complete in all respects including payment of fee, should be submitted and a computer generated hard copy of the same, after downloading, should be sent through Registered/ Speed Post only so as to reach the office of Controller of Examinations (Agril. Education), ICAR, Room No. 216, KrishiAnusandhanBhavan-II, Pusa, New Delhi 110 012, well in time but not later than the last date. The last date for receipt of hard copy of computer generated confirmation copy online Application from the candidates residing in remote areas such as Assam, Meghalaya, Arunachal Pradesh, Mizoram, Manipur, Nagaland, Tripura, Sikkim, J&K, Lahaul and Spiti District and Pangi Sub-division of Chamba district of Himachal Pradesh, Andaman & Nicobar Island and Lakshadweep is 04.05.2016. Any incomplete application or application received after the last date will be rejected and no claim/correspondence in this regard will be entertained. The ICAR will not be responsible for any postal delay or loss of application during transit in this regard.
- (iii) The candidates appearing in the final qualifying examination are also eligible to apply and can appear in this entrance examination, but they must produce documentary evidence of their acquiring eligibility on the date of counseling.
- (iv) Candidates are not required to submit any certificates / marks sheet etc. with the Application. It is the sole responsibility of the candidates to ensure that they fulfill the specified eligibility in toto before appearing in the examination.
- (v) Detailed instructions for online application may be read carefully before filling and submitting application.
- (vi) If any candidate has been found at any stage to have furnished wrong information or deliberately suppressed any relevant information, his/her candidature/ admission will be rejected/ cancelled as soon as it comes to the notice of either ICAR or the university concerned.

The candidate has to visit www.icar.org.in and click the option of filling online application AIEEA-UG-2016. The candidate can download prospectus, read it carefully and then fill his / her form online.

During filling of prescribed online form, candidate can either opt for making fee payment through **Credit / Debit card using Payment Gateway of Canara Bank /NEFT or Bank Challan of State Bank of Bikaner and Jaipur(SBBJ)**.

a. Making payment through Credit/Debit card using Payment Gateway of Canara Bank

During online filling of the form, candidate can opt for making fee payment through Credit / Debit card using Payment Gateway of Canara Bank. In this case, the candidate will make payment directly through the debit/ credit card from his computer and will not be required to visit the bank. Receipt of such payments/ application is confirmed immediately.

b. Making payment through NEFT

While filling the form the candidates may also opt for 'Payment through NEFT'. When candidates have selected this option, after filling the form, a NEFT Challan shall be generated. The candidates can take a print out of this Challan and send NEFT remittance through any branch of any bank. In such cases, the candidates must fill the information as available in the NEFT Challan generated through ICAR website. The candidates must obtain the UTR number from the Bank through which they have sent NEFT remittance. The candidates are required to enclose a photocopy of the Banks' challan bearing the UTR number along with the hard copy of online application without fail.

After obtaining the UTR number, the candidates are required to visit the ICAR website again and upload the UTR number details in the website. Candidates are advised to ensure that only correct UTR details are entered in the website as the in-correct details shall lead to rejection of the application without further correspondence in the matter. No Bank charges are payable for NEFT payment.

c. Making payment through Bank Challan

After filling the Online Application, candidate has to take a printout of computer generated confirmation page and bank challan (in 3 copies) through which he/she has to deposit cash (fee) in the nearest **State Bank of Bikaner and Jaipur(SBBJ)**, Bank branch. Bank will return two copies of challan duly stamped. Candidate will retain one copy of the challan. He/she will enclose the second copy (duly stamped by the bank) with his/her filled in computer generated confirmation page's printout and send it to COE (Agril. Edn.) by post at the given address.

While filling the online form, candidate should upload soft copy of his /her clear, recent, colour photograph with name and date, thumb impression (his left/ her right hand) and signature and send its computer generated hard copy, after completing declaration in his/her own handwriting, to COE (Agril. Edn.) by post at the given address.

Application will be allowed **ONLINE only. No application will be allowed on any other format and will be summarily rejected.**

8.2 Conduct of Examination

- (i) Examination Hall will be opened to candidates 30 minutes before the commencement of examination.
- (ii) Candidate who does not possess e-Admit Card, duly attested will not be admitted to the Examination Hall under any circumstances.
- (iii) Pre-written material in any form, viz., notes/books/ log table, and mobile phones/i-pods, tablets, calculator or any electronic device are not allowed inside the examination hall. ICAR reserves all rights to verify the identity and genuineness of each candidate by any means that is considered appropriate. For verification, candidate may be searched at any time during the examination.
- (iv) The examination will start strictly on time and an announcement to this effect will be made by the Invigilator.
- (v) A time signal will be given ringing a long bell at the start of the examination. To indicate that one hour is remaining, or 15 minutes are remaining, short bells will be given. A signal (long bell) will also be given at the closing time for collection of OMR sheet and question booklet when the candidate must stop writing/markings the answers.
- (vi) Candidate coming late may be allowed to enter the examination hall up to 10.30 A.M. only but no extra time will be given. Candidate coming late beyond 30 minutes, after the commencement of the examination, will not be permitted.

- (vii) Fifteen minutes before the commencement of the examination, each candidate will be given OMR Answer Sheet and five minutes before, the Question Booklet.
- (viii) Immediately on receipt of Question Booklet, candidate should write/fill-in the required particulars on the cover page of the Question Booklet with **BLACK/ BLUE BALL-POINT PEN ONLY**. Candidate will not open the Question Booklet, until asked to do so by the Invigilator. After opening the Question Booklet, read the instructions given on it carefully before attempting the questions.
- (ix) Candidate will write required particulars on OMR answer sheet as per the instructions given therein with only BLACK / BLUE BALL-POINT PEN on SIDE-I and–II.
- (x) No candidate shall be allowed to leave the Examination Hall until the completion of examination and related formalities. Candidate will hand over Question Booklet and OMR Answer Sheet to the Invigilator before leaving the Examination Hall.
- (xi) After completing the examination and before handing over the Question Booklet and the OMR Answer Sheet, the candidate should once again check that all the particulars required in the Question Booklet and the OMR Answer Sheet has been correctly filled-in.
- (xii) The OMR Answer sheet shall be scanned and evaluated through computer and the **category-wise final merit list for counseling shall be prepared based on the reservation category information given by the candidate in OMR Answer sheet**. It must be ensured by the candidate that Roll Number, Subject Stream, Series of Question Booklet, optional paper attempted and Reservation Category are correctly written in the OMR Answer Sheet and also the OMR Answer Sheet is duly signed by the invigilator and the candidate at appropriate places, failing which it may not be considered for evaluation.
- (xiii) Before leaving the Examination Hall, the candidate must ensure that OMR Answer Sheet and Question Booklet have been handed over to the invigilator on duty. In case, the candidate does not hand over the OMR Answer Sheet with Question Booklet to the invigilator and takes away the same with him/her, this shall amount to use of unfair means and the candidate will be declared failed besides inviting further necessary action.
- (xiv) Candidates are advised to bring with them their own writing material such as hard card-board (on which nothing should be written) and their own good quality black/blue ball-point pens.
- (xv) Any attempt of using unfair means by the candidate during the examination process will render him/ her liable to be disqualified and his/her candidature for the examination would be forfeited.

8.3 Checking/Changing Question Booklet: Before attempting the questions, the candidate must check Question Booklet for any defect in printing/number of pages, stream (A/B), serial order of the questions etc., and ensure that Question Booklet given to him/her is serially numbered and contains pages as written on top of the first page. In case of any discrepancy/ defect, the candidate should immediately report to the Invigilator concerned and get the Question Booklet changed. **Change of question booklet would not be permitted 30 minutes after the start of examination.** The candidate shall not remove any page(s) from the Question Booklet and if any page(s) is/are found missing from his/her Question Booklet, it will be treated as use of unfair means and shall render him/her liable for action/ cancellation of candidature.

8.4 Writing Answers on OMR Answer Sheet

- (i) Candidates are advised to go through the Specimen copy of OMR Answer sheet at **ANNEXURE–XII** very carefully and be conversant with the requirements of filling various particulars and marking the answers so that during the examination they could do so without any difficulty.
- (ii) OMR Answer Sheet used in the examination will be of special type amenable to scanning through Optical Scanner. There will be two sides of the OMR Answer Sheet, Side-I, containing particulars of candidate, instructions and Side-II, containing circles/bubbles.

Side – I (To be written with black/blue ball-point pen only)

Item No. 1–5: Write full Name, Father's Name, Roll Number, Examination-City-Centre Code number in item No. 1 to 4 exactly as given in the Admit Card and Question Booklet Serial Number at item No. 5.

Item No. 7: Put your signature in full, which must match with the signature as recorded in the Application and Admit Card.

Item No. 8: Must be signed by the invigilator.

Side - II (Use black/blue ball-point pen only)

Item No. 9: Fill in your roll number, writing one digit in each box and also shade/darken the corresponding circle/bubbles in the vertical columns underneath.

Item No. 10: Fill-in the Question Booklet serial number as indicated on the Question Booklet. You may omit the leading zero, if any.

Item No. 11: Darken the circle/bubble of **Stream-A** or **Stream-B** as the case may be.

(A – Agriculture / Biology group),

(B – Mathematics group).

Item No. 12: Darken the circle/bubble corresponding to the Question Paper Series-1 or Series-2 as provided in the box at right corner of the Question Booklet.

Item No. 13: Darken the circle of Optional Paper attempted, Biology/ Mathematics / Agriculture, as the case may be.

Item No. 14: Darken the circle/bubble for Reservation Category being claimed. **Note that after evaluation of Answer Sheet, the category-wise merit-rank list would be prepared on the basis of this information only.**

SC – for Scheduled Caste

ST – for Scheduled Tribe

PC – for Physically Challenged

UPS – for Under Privileged States

OBC – for Other Backward Classes having Central OBC certificate

GEN – for General category

NOTE:

- (a) In case columns 11 & 12 are left blank or filled wrongly, the candidate would expose him/her-self to the risk of evaluation under wrong Stream/Series for which candidate him/her-self would be responsible. ICAR would not entertain any correspondence in this regard.
- (b) In the event of leaving column 14 of OMR Answer sheet blank or filling wrongly, the candidate would be evaluated under General Category.
- (c) It is the responsibility of the candidate to put his signature and also get the OMR Answer Sheet signed (serial No. 8) by the Invigilator which is a must for authentication and evaluation of the answer sheet.

Item No. 15: Corresponding to every serial number of question booklet, numbering 001 to 180, there is a corresponding answer-row on the Side-II of OMR Answer sheet, comprising of four circles/bubbles for recording correct answer to the question by completely darkening the appropriate circle/bubble and these circles/bubbles are marked with options A, B, C and D. Only one of these four options is the most appropriate and correct. The candidate is required to indicate his/her answer to the question by shading/darkening the appropriate circle/bubble completely with black/ blue ball-point pen. For example, the Question No. 004 in the Question Booklet may read as follows:

Q.No. 004. The unit of velocity is:

(A) ms_{-2}

(B) ms_{-1}

(C) ms_2

(D) ms

If the correct answer to this question is (B) i.e. ms_{-1} . The candidate will locate question No. 004 in the answer sheet and darken the circle/bubble marked (B) as shown below:

Q.No. 004 (A) ☒ (C) (D)

If the candidate does not want to attempt a question, he/she should not mark any of the circles/bubbles given against that question.

8.5 Changing an Answer: The candidate will answer on the OMR Answer sheet by darkening the appropriate circle/bubble with black/ blue ball-point pen. The candidates will not be allowed to change the answer once marked as the computer processing will automatically discredit marking of more than one answer to a question during evaluation. Candidate must also ensure that no visible mark is left on OMR answer sheet, otherwise the answer will be treated as wrong and invite negative marking. The candidate should bring his/her own good quality black/ blue ball-point pen for the exam.

8.6 Wrong/Incorrect Way of Marking: If more than one circle/bubble is darkened, or if the answer is marked in any manner other than the one as shown above, it shall be treated as wrong. A lightly/faintly darkened circle/bubble or

otherwise marked circle/bubble will also be read by the Optical Scanner during scanning and the answer whether right or wrong shall not be the responsibility of the Council and the onus will lie on the candidate on account of incorrect way of marking. **Any indicative marking or stray marks on the OMR answer sheet shall be treated as an act of unfair means and discredit the candidate during optical scanning. The candidate must also ensure that the OMR answer sheet is not folded/ wrinkled.**

8.7 Rough Work: The candidate will not do any rough work or writing work on the OMR answer sheet. Rough work, if any, must be done on the pages provided for the purpose in the Question Booklet.

9.0 METHOD OF SELECTION AND ADMISSION THROUGH COUNSELING

9.1 Method of Selection

- (i) The candidate declared/notified as qualified for counseling, based on the merit-rank, shall report for Counseling as per Counseling schedule at **ANNEXURE–XI** until and unless otherwise intimated. Candidate shall forfeit the claim for admission if he/she, in-person or through Authorized representative, does not report for counseling. **Candidate who has not been declared/ notified as qualified for counseling, shall not be considered for admission on ICAR seats in any Agricultural University at any stage.**
- (ii) Candidate will be recommended for admission in the subject/degree programme of choice in the Agricultural Universities on the basis of merit in the Entrance Examination and availability of seats at his/her merit-rank during counseling.
- (iii) List of original documents with self-attested photocopies, photographs to be produced at the time of counseling is as under:
 - (a) All certificates and mark sheets/grade reports, in original related to Class X and XII, Transfer Certificate/ School Leaving Certificate, Character Certificate from the School last attended.
 - (b) In case of candidates from SC, ST and non-creamy layer of OBC categories, Original Certificate as per Central Govt. requirements and issued by Competent Authority.
 - (c) Medical Certificate in case of Physically Challenged (PC) candidates issued by Medical Officer of any Government Hospital with description of the kind and the degree of disability.
 - (d) In case the Date of Birth is not mentioned in Class X Certificate, Date of Birth (DOB) Certificate.
 - (e) e- Admit Card, counseling call/invitation letter from ICAR in original.
 - (f) Three recent and clear passport size colour photographs with name and date same as uploaded on the Application Form.
 - (g) Domicile certificate.
 - (h) Authority letter/undertaking in the prescribed format (**Annexure-III of IB**), if the candidate is unable to attend the counseling personally.

9.2 Admission through Counseling

- (i) There will be offline counseling (personal appearance) only. The candidates qualified for counseling and called for consideration for provisional admission to the Agricultural Universities would be generally larger than the number of seats available, provided they have achieved a minimum of 50% marks for General and UPS categories and a minimum of 40% marks for SC/ST/PC categories in the Entrance examination. For OBC, it will be as per Supreme Court directives in this regard. The competent authority (DDG, Agril. Edn.) may relax the minimum qualifying marks in case the required number of candidates to be called for counseling are not available.
- (ii) The candidate, invited for counseling, will have to fill a prescribed **Counseling Form** (specimen at **ANNEXURE–XIII**) at the time of counseling. Candidate should give his/her options for choice of subject/degree programme and University in order of preference and present the same at the counseling desk when his/ her name and rank is announced through Microphone/Public Address System.
- (iii) The candidate or authorized representative called for counseling (personal appearance) should bring the counseling intimation letter downloaded from ICAR website/issued, Rs. 2,000/- (Rupees Two Thousand only) in Cash, e-Admit Card, All Original Certificates with Mark-sheets, SC/ST/PC/UPS/OBC Category Certificate etc. as mentioned above and present the documents in original for verification at the **Document Checking Desk** and place the self attested photocopies of the documents in their file. Final checking of the documents will be done at the time of admission by the allotted university. After the document checking, only the candidate, or their authorized representative along with their file and checked documents shall proceed to another counseling hall for the allotment of seat & the university available at their merit rank and choice. After the seat is allotted by the counselors and accepted by the candidate, shall move to the **Computer Desk-I** where the allotted seat will be deleted from the seat display system. Thereafter, part admission fee is to be deposited with the Registrar of the allotted university. After depositing the provisional admission fee of Rs. 2,000/- in cash, candidate shall collect the fee receipt from

the respective university representative and present his/ her file at the **Computer Desk-II** where he/ she will be issued the provisional admission letter. The candidate must check his/her name, Subject allotted, name of the allotted University, the award of NTS, if applicable, etc. on the recommendation letter issued under the signature of ADG(HRD) before leaving the counseling hall. They must deposit their file at the **Computer Desk-II without fail.**

- (iv) Authorized representative should bring the duly filled-in Authority Letter, attested by the competent authority indicated (**ANNEXURE-III**). One individual shall not act as representative for more than two candidates.
- (v) Candidate, not fulfilling the eligibility condition(s) at the time of counseling, will forfeit claim for admission and will not be considered for seat allocation. Candidature in such cases shall be rejected summarily. No correspondence shall be entertained thereafter in this regard.
- (vi) In view of the limited time availability for counseling at the counseling desk, each candidate is advised to keep a ready list of options, in case the filled in options of the candidate have been exhausted by the time candidate reaches the counseling desk. Candidate taking more time at the counseling desk may be asked to come at the end of the queue so that time of the remaining candidates is not wasted. In that case, the candidate shall lose claim of seat at his/her merit-rank.
- (vii) In case, all seats in a subject at the University opted for, are exhausted by the time candidate reaches counseling desk, he/she shall have the option to provide fresh choices of subject/university, wherever the seat is available. The candidate shall have no claim for change of subject/University thereafter.
- (viii) **Against total number of ICAR seats available for a particular degree programme in a university, not more than 40% of ICAR seats from one State would be allocated to any one university in that subject under a particular category. While computing 40% number, mathematical method of rounding to the nearest integer would be adopted except where there is only one seat, in which case, the whole seat would be allocated. While rounding off, the number might exceed 40% to that extent.**
- (ix) Candidate reporting late for counseling beyond the time specified on the specified counseling date, may be considered for admission on the counseling date, subject to valid/acceptable reason for late reporting, only out of the subjects & Universities available at the time of his/her actual counseling. He/she will lose any claim for seat at his/her merit-rank due to- late reporting. Please see **Annexure- XI** for related instructions.
- (x) The fact that a candidate or his/her representative has appeared for Counseling, will not ensure admission unless a seat at the rank of the candidate for Counseling is available and he/she meets all eligibility requirements.
- (xi) It should be noted carefully that ICAR allocates the University, whereas the choice of the **accredited** College within the University allotted shall be regulated by the University itself. **The university will place the candidates in accredited colleges only.** Candidate may not approach ICAR, thereafter, for any specific College within the allotted University.
- (xii) In case a candidate has been allotted a university and subject at the time of counseling and the same has been accepted by the candidate, any request for change/transfer of subject/university thereafter, will not be entertained by ICAR. The candidate, once admitted in a degree programme as per his/her merit-rank and availability of seat at the time of counseling, will not stake claim for change of subject/University later on after his/her counseling is over.
- (xiii) All candidates or their authorized representatives reporting for Counseling will be required to submit original certificates and mark sheets to the Registrar of the allotted University, otherwise admission may not be granted. All original certificates submitted by the candidates may be sent to their respective Boards for verification. In case a candidate wishes to withdraw the original certificates after the admission, he/she shall directly request the allotted University for the same.
- (xiv) If any candidate fails to deposit the part admission fee and original certificates as required, the admission would not be granted and candidate would forfeit his/her claim for admission.
- (xv) In case any particular Board is not recognized or has been derecognized by some university, ICAR will not be responsible for admitting students of that Board in the universities not willing to admit such candidates.

9.3 Admission through Waitlist

- (i) The candidate, who has attended the Counseling, but due to non-availability of subject/University of his/her choice, has not accepted admission during the counseling but desires admission later on out of any consequential vacancy, should submit request for admission through waitlist in a Wait-List proforma which shall be provided at the time of counseling.
- (ii) The request for admission through Wait List will be considered as per his/her choice, provided vacancy arises in the subject/university within the time limit of student-registration for admission at that university.

- (iii) If the candidate does not submit such a waitlist request at the time of counseling, it will be presumed that he/she is no more interested in admission on ICAR seats and no request received thereafter, will be considered.
- (iv) It may be noted that a **candidate who has been allotted a seat during counseling is not allowed to opt for waitlist vacancies.**
- (v) The waitlist will be sent by the ICAR directly to the concerned university which may invite the candidate in case the vacancy arises by the last date of registration for particular Academic Session. **Candidate shall not correspond with ICAR in this regard.**
- (vi) Candidate should further note that mere submission of wait-list proforma request does not guarantee admission unless seats fall vacant in his/her choice of university/subject within the time schedule for registration/ admission.

9.4 Filling of Vacant seats after the counseling

- (i) ICAR seats, if remain vacant, even after filling up with waitlisted candidates shall automatically stand released to the Agricultural University concerned for filling up at their level and as per the procedure in vogue at the respective university. **These seats will no more be called as ICAR seats and will be treated as university seats.** Once the counseling/ admission process, including the waitlisted candidates, is over, filling up of any subsequent vacancies created due to non- reporting of candidates or any other reason, shall not be the responsibility of ICAR. No correspondence in this regard will be entertained either from the universities or from any candidate.
- (ii) The candidate admitted provisionally to an Agricultural University through ICAR examination, shall have to report to the concerned Agricultural University on the date of registration, as notified by the concerned University. The candidate is, therefore, advised to be in constant touch with the University allotted. Date of joining/registration at the university must be enquired from the university official present during the counseling and carefully noted.
- (iii) No correspondence from the candidates/ guardians/ parents will be entertained for seeking permission for late registration/ admission in the universities or issuing any direction in this regard.

10.0 INSTITUTIONAL INFORMATION ON NDRI (DAIRY TECH.):

From this Academic Session, 15% seats at NDRI, Karnal in Dairy Technology will be filled based on merit-rank in this examination. Reservation of SC, ST, PC and UPS categories will be applicable as per ICAR norms at **item 5.0**. However, out of the total seats, not more than 40% seats (with mathematical rounding procedure applied as explained earlier) will be filled from one State. Reservation for OBC will be as per Government of India directives applicable at the time of counseling.

**SYLLABUS FOR
ICAR'S ALL INDIA ENTRANCE EXAMINATION FOR ADMISSION TO
BACHELOR DEGREE PROGRAMMES (AIEEA-UG-2016)**

PHYSICS

Unit-1: Physical World and Measurement

Physics scope and excitement; nature of physical laws; Physics, technology and society. Need for measurement: Units of measurement; systems of units; SI units, fundamental and derived units. Length, mass and time measurements; accuracy and precision of measuring instruments; errors in measurement; significant figures. Dimensions of physical quantities, dimensional analysis and its applications.

Unit-2: Kinematics

Frame of reference. Motion in a straight line: Position-time graph, speed and velocity. Uniform and non-uniform motion, average speed and instantaneous velocity. Uniformly accelerated motion: velocity-time graph, position-time graphs, relations for uniformly accelerated motion (graphical treatment). Elementary concepts of differentiation and integration for describing motion. Scalar and vector quantities: Position and displacement vectors, general vectors and notation, equality of vectors, multiplication of vectors by a real number; addition and subtraction of vectors. Relative velocity. Unit vector; Resolution of a vector in a plane - rectangular components. Motion in a plane. Cases of uniform velocity and uniform acceleration-projectile motion. Uniform circular motion. Motion of objects in three dimensional space. Motion of objects in three dimensional space.

Unit-3: Laws of Motion

Intuitive concept of force. Inertia, Newton's first law of motion; momentum and Newton's second law of motion; impulse; Newton's third law of motion. Law of conservation of linear momentum and its applications. Equilibrium of concurrent forces. Static and kinetic friction, laws of friction, rolling friction. Dynamics of uniform circular motion: Centripetal force, examples of circular motion (vehicle on level circular road, vehicle on banked road).

Unit-4: Work, Energy and Power

Scalar product of vectors. Work done by a constant force and a variable force; kinetic energy, work-energy theorem, power. Notion of potential energy, potential energy of a spring, conservative forces: conservation of mechanical energy (kinetic and potential energies); non-conservative forces: elastic and inelastic collisions in one and two dimensions.

Unit-5: Motion of System of Particles and Rigid Body

Centre of mass of a two-particle system, momentum conservation and centre of mass motion. Centre of mass of a rigid body; centre of mass of uniform rod. Vector product of vectors; moment of a force, torque, angular momentum, conservation of angular momentum with some examples. Equilibrium of rigid bodies, rigid body rotation and equations of rotational motion, comparison of linear and rotational motions; moment of inertia, radius of gyration. Values of moments of inertia for simple geometrical objects. Statement of parallel and perpendicular axes theorems and their applications.

Unit-6: Gravitation

Kepler's laws of planetary motion. The universal law of gravitation. Acceleration due to gravity and its variation with altitude and depth. Gravitational potential energy; gravitational potential. Escape velocity. Orbital velocity of a satellite. Geo-stationary satellites.

Unit-7: Properties of Bulk Matter

Elastic behaviour, Stress-strain relationship, Hooke's law, Young's modulus, bulk modulus, shear, modulus of rigidity. Pressure due to a fluid column; Pascal's law and its applications (hydraulic lift and hydraulic brakes). Effect of gravity on fluid pressure. Viscosity, Stokes' law, terminal velocity, Reynold's number, streamline and turbulent flow. Bernoulli's theorem and its applications. Surface energy and surface tension, angle of contact, application of surface tension ideas to drops, bubbles and capillary rise.

Heat, temperature, thermal expansion; specific heat - calorimetry; change of state - latent heat. Heat transfer-conduction, convection and radiation, thermal conductivity, Newton's law of cooling.

Unit-8: Thermodynamics

Thermal equilibrium and definition of temperature (zeroth law of thermodynamics). Heat, work and internal energy. First law of thermodynamics. Second law of thermodynamics: reversible and irreversible processes. Heat engines and refrigerators.

Unit-9: Behaviour of Perfect Gas and Kinetic Theory

Equation of state of a perfect gas, work done on compressing a gas. Kinetic theory of gases - assumptions, concept of pressure. Kinetic energy and temperature; rms speed of gas molecules; degrees of freedom, law of equipartition of energy (statement only) and application to specific heats of gases; concept of mean free path, Avogadro's number.

Unit-10: Oscillations and Waves

Periodic motion - period, frequency, displacement as a function of time. Periodic functions. Simple Harmonic Motion (S.H.M) and its equation; phase; oscillations of a spring—restoring force and force constant; energy in S.H.M.- kinetic and potential energies; simple pendulum— derivation of expression for its time period; free, forced and damped oscillations, resonance. Wave motion. Longitudinal and transverse waves, speed of wave motion. Displacement relation for a progressive wave. Principle of superposition of waves, reflection of waves, standing waves in strings and organ pipes, fundamental mode and harmonics, Beats, Doppler effect.

Unit-11: Electrostatics

Electric Charges; Conservation of charge, Coulomb's law - force between two point charges, forces between multiple charges; superposition principle and continuous charge distribution. Electric field, electric field due to a point charge, electric field lines; electric dipole, electric field due to a dipole; torque on a dipole in uniform electric field. Electric flux, statement of Gauss's theorem and its applications to find field due to infinitely long straight wire, uniformly charged infinite plane sheet and uniformly charged thin spherical shell (field inside and outside). Electric potential, potential difference, electric potential due to a point charge, a dipole and system of charges; equipotential surfaces, electrical potential energy of a system of two point charges and of electric dipole in an electrostatic field. Conductors and insulators, free charges and bound charges inside a conductor. Dielectrics and electric polarization, capacitors and capacitance, combination of capacitors in series and in parallel, capacitance of a parallel plate capacitor with and without dielectric medium between the plates, energy stored in a capacitor. Van de Graaff generator.

Unit-12: Current Electricity

Electric current, flow of electric charges in a metallic conductor, drift velocity, mobility and their relation with electric current; Ohm's law, electrical resistance, $V - I$ characteristics (linear and non-linear), electrical energy and power, electrical resistivity and conductivity. Carbon resistors, colour code for carbon resistors; series and parallel combinations of resistors; temperature dependence of resistance. Internal resistance of a cell, potential difference and emf of a cell, combination of cells in series and in parallel. Kirchhoff's laws and simple applications. Wheatstone bridge, metre bridge. Potentiometer - principle and its applications to measure potential difference and for comparing emf of two cells; measurement of internal resistance of a cell.

Unit-13: Magnetic Effects of Current and Magnetism

Concept of magnetic field, Oersted's experiment. Biot - Savart law and its application to current carrying circular loop. Ampere's law and its applications to infinitely long straight wire, straight and toroidal solenoids. Force on a moving charge in uniform magnetic and electric fields. Cyclotron. Force on a current-carrying conductor in a uniform magnetic field. Force between two parallel current-carrying conductors-definition of ampere. Torque experienced by a current loop in uniform magnetic field; moving coil galvanometer-its current sensitivity and conversion to ammeter and voltmeter.

Current loop as a magnetic dipole and its magnetic dipole moment. Magnetic dipole moment of a revolving electron. Magnetic field intensity due to a magnetic dipole (bar magnet) along its axis and perpendicular to its axis. Torque on a magnetic dipole (bar magnet) in a uniform magnetic field; bar magnet as an equivalent solenoid, magnetic field lines; Earth's magnetic field and magnetic elements. Para-, dia- and ferro - magnetic substances, with examples. Electromagnets and factors affecting their strengths. Permanent magnets.

Unit-14: Electromagnetic Induction and Alternating Currents

Electromagnetic induction; Faraday's law, induced emf and current; Lenz's Law, Eddy currents. Self and mutual inductance. Need for displacement current. Alternating currents, peak and rms value of alternating current/voltage; reactance and impedance; LC oscillations (qualitative treatment only), LCR series circuit, resonance; power in AC circuits, wattless current. AC generator and transformer.

Unit-15: Electromagnetic waves

Displacement current, Electromagnetic waves and their characteristics (qualitative ideas only). Transverse nature of electromagnetic waves. Electromagnetic spectrum (radio waves, microwaves, infrared, visible, ultraviolet, X-rays, gamma rays) including elementary facts about their uses.

Unit-16: Optics

Reflection of light, spherical mirrors, mirror formula. Refraction of light, total internal reflection and its applications, optical fibres, refraction at spherical surfaces, lenses, thin lens formula, lensmaker's formula. Magnification, power of a lens, combination of thin lenses in contact. Refraction and dispersion of light through a prism. Scattering of light - blue colour of the sky and reddish appearance of the sun at sunrise and sunset. Optical instruments: Human eye, image formation and accommodation, correction of eye defects (myopia, hypermetropia, presbyopia and astigmatism) using lenses. Microscopes and astronomical telescopes (reflecting and refracting) and their magnifying powers. Wave optics: wave front and Huygens' principle, reflection and refraction of plane wave at a plane surface using wave fronts. Proof of laws of reflection and refraction using Huygens' principle. 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. Resolving power of microscopes and astronomical telescopes. Polarisation, plane polarised light; Brewster's law, uses of plane polarised light and Polaroids.

Unit-17: Dual Nature of Matter and Radiation

Dual nature of radiation. Photoelectric effect, Hertz and Lenard's observations; Einstein's photoelectric equation-particle nature of light. Matter waves-wave nature of particles, de Broglie relation. Davisson-Germer experiment.

Unit-18: Atoms & Nuclei

Alpha-particle scattering experiment; Rutherford's model of atom; Bohr model, energy levels, hydrogen spectrum. Composition and size of nucleus, atomic masses, isotopes, isobars; isotones. Radioactivity, alpha, beta and gamma particles/rays and their properties; radioactive decay law. Mass-energy relation, mass defect; binding energy per nucleon and its variation with mass number; nuclear fission, nuclear reactor, nuclear fusion.

Unit-19: Electronic Devices

Semiconductors; semiconductor diode – I -V characteristics in forward and reverse bias, diode as a rectifier; I - V characteristics of LED, photodiode, solar cell, and Zener diode; Zener diode as a voltage regulator. Junction transistor, transistor action, characteristics of a transistor; transistor as an amplifier (common emitter configuration) and oscillator. Logic gates (OR, AND, NOT, NAND and NOR). Transistor as a switch.

Unit-20: Communication Systems

Elements of a communication system (block diagram only); bandwidth of signals (speech, TV and digital data); bandwidth of transmission medium. Propagation of electromagnetic waves in the atmosphere, sky and space wave propagation. Need for modulation. Production and detection of an amplitude-modulated wave.

CHEMISTRY

Unit-1: Some Basic Concepts of Chemistry

General Introduction: Importance and scope of chemistry. Historical approach to particulate nature of matter, laws of chemical combination. Dalton's atomic theory: concept of elements, atoms and molecules. Atomic and molecular masses mole concept and molar mass: percentage composition, empirical and molecular formula chemical reactions, stoichiometry and calculations based on stoichiometry.

Unit-2: Solid State

Classification of solids based on different binding forces: molecular, ionic, covalent and metallic solids, amorphous and crystalline solids (elementary idea), unit cell in two dimensional and three dimensional lattices, calculation of density of unit cell, packing in solids, voids, number of atoms per unit cell in a cubic unit cell, point defects, electrical and magnetic properties.

Unit-3: Solutions

Types of solutions, expression of concentration of solutions of solids in liquids, solubility of gases in liquids, solid solutions, colligative properties – relative lowering of vapour pressure, elevation of Boiling Point, depression of freezing point, osmotic pressure, determination of molecular masses using colligative properties, abnormal molecular mass.

Unit-4: Structure of Atom

Discovery of electron, proton and neutron; atomic number, isotopes and isobars. Thomson's model and its limitations, Rutherford's model and its limitations. Bohr's model and its limitations, concept of shells and subshells, dual nature of matter and light, de Broglie's relationship, Heisenberg uncertainty principle, concept of orbitals, quantum numbers, shapes of s, p, and d orbitals, rules for filling electrons in orbitals - Aufbau principle, Pauli exclusion principle and Hund's rule, electronic configuration of atoms, stability of half filled and completely filled orbitals.

Unit-5: Classification of Elements and Periodicity in Properties

Significance of classification, brief history of the development of periodic table, modern periodic law and the present form of periodic table, periodic trends in properties of elements -atomic radii, ionic radii. Ionization enthalpy, electron gain enthalpy, electro negativity, valence.

Unit-6: Chemical Bonding and Molecular Structure

Valence electrons, ionic bond, covalent bond: bond parameters. Lewis structure, polar character of covalent bond, covalent character of ionic bond, valence bond theory, resonance, geometry of covalent molecules, VSEPR (Valence shell electron pair repulsion) theory, concept of hybridization, involving s, p and d orbitals and shapes of some simple molecules, molecular orbital; theory of homonuclear diatomic molecules (qualitative idea only), hydrogen bond.

Unit-7: States of Matter: Gases and Liquids

Three states of matter. Intermolecular interactions, type of bonding, melting and boiling points. Role of gas laws in elucidating the concept of the molecule, Boyle's law, Charles law, Gay Lussac's law, Avogadro's law. Ideal behaviour, empirical derivation of gas equation, Avogadro's number. Ideal gas equation. Derivation from ideal behaviour, liquefaction of gases, critical temperature. Liquid State - Vapour pressure, viscosity and surface tension (qualitative idea only, no mathematical derivations).

Unit-8: Thermodynamics

Concepts of System, types of systems, surroundings. Work, heat, energy, extensive and intensive properties, state functions. First law of thermodynamics - internal energy and enthalpy, heat capacity and specific heat, measurement of ΔU and ΔH , Hess's law of constant heat summation, enthalpy of: bond dissociation, combustion, formation, atomization, sublimation. Phase transformation, ionization, and solution. Introduction of entropy as a state function, free energy change for spontaneous and non-spontaneous processes, criteria for equilibrium.

Unit-9: Equilibrium

Equilibrium in physical and chemical processes, dynamic nature of equilibrium, law of mass action, equilibrium constant, factors affecting equilibrium - Le Chatelier's principle; ionic equilibrium - ionization of acids and bases, strong and weak electrolytes, degree of ionization, concept of pH. Hydrolysis of salts. Buffer solutions, solubility product, common ion effect.

Unit-10: Redox Reactions

Concept of oxidation and reduction, redox reactions, oxidation number, balancing redox reactions, applications of redox reactions.

Unit-11: Hydrogen

Position of hydrogen in periodic table, occurrence, isotopes, preparation, properties and uses of hydrogen; hydrides - ionic, covalent and interstitial; physical and chemical properties of water, heavy water; hydrogen peroxide-preparation, properties and structure; hydrogen as a fuel.

Unit-12: s-Block Elements (Alkali and Alkaline earth metals)

Group 1 and Group 2 elements

General introduction, electronic configuration, occurrence, anomalous properties of the first element of each group, diagonal relationship, trends in the variation of properties (such as ionization enthalpy, atomic and ionic radii), trends in chemical reactivity with oxygen, water, hydrogen and halogens; uses.

Unit-13: Preparation and properties of some important compounds

Sodium carbonate, sodium chloride, sodium hydroxide and sodium hydrogen carbonate, biological importance of sodium and potassium. CaO , CaCO_3 and industrial use of lime and limestone, biological importance of Mg and Ca

Unit-14: Some p-Block Elements

General Introduction to p-Block Elements: Group 13 elements

General introduction, electronic configuration, occurrence. Variation of properties, oxidation states, trends in chemical reactivity, anomalous properties of first element of the group; Boron- physical and chemical properties, some important compounds: borax, boric acids, boron hydrides. Aluminum: uses, reactions with acids and alkalis.

Unit-15: Group 14 elements

General introduction, electronic configuration, occurrence, variation of properties, oxidation states, trends in chemical reactivity, anomalous behaviour of first element, Carbon - catenation, allotropic forms, physical and chemical properties; uses of some important compounds: oxides. Important compounds of silicon and a few uses: silicon tetrachloride, silicones, silicates and zeolites.

Unit-16: Organic Chemistry

Some Basic Principles and Techniques

General introduction, methods of qualitative and quantitative analysis, classification and IUPAC nomenclature of organic compounds, Electronic displacements in a covalent bond: inductive effect, electromeric effect, resonance and hyper conjugation. Homolytic and heterolytic fission of a covalent bond: free radicals, carbocations, carbanions; electrophiles and nucleophiles, types of organic reactions

Unit-17: Hydrocarbons

Classification of hydrocarbons

Alkanes - Nomenclature, isomerism, conformations (ethane only), physical properties, chemical reactions including free radical mechanism of halogenation, combustion and pyrolysis.

Alkenes - Nomenclature, structure of double bond (ethene) geometrical isomerism, physical properties, methods of preparation; chemical reactions: addition of hydrogen, halogen, water, hydrogen halides (Markovnikov's addition and peroxide effect), ozonolysis, oxidation, mechanism of electrophilic addition.

Alkynes - Nomenclature, structure of triple bond (ethyne), physical properties. Methods of preparation, chemical reactions: acidic character of alkynes, addition reaction of - hydrogen, halogens, hydrogen halides and water.

Aromatic hydrocarbons: Introduction, IUPAC nomenclature; benzene: resonance, aromaticity; chemical properties: mechanism of electrophilic substitution. – nitration, sulphonation, halogenation, Friedel-Craft's alkylation and acylation: directive influence of functional group in mono-substituted benzene; carcinogenicity and toxicity.

Unit-18: Electrochemistry

Conductance in electrolytic solutions, specific and molar conductivity variations of conductivity with concentration, Kohlrausch's Law, electrolysis and laws of electrolysis (elementary idea), dry cell – electrolytic cells and Galvanic cells; lead accumulator, EMF of a cell, standard electrode potential, Nernst equation and its application to chemical cells, fuel cells; corrosion.

Unit-19: Chemical Kinetics

Rate of a reaction (average and instantaneous), factors affecting rate of reaction; concentration, temperature, catalyst; order and molecularity of a reaction; rate law and specific rate constant, integrated rate equations and half life (only for zero and first order reactions); concept of collision theory (elementary idea, no mathematical treatment)

Unit-20: Surface Chemistry

Adsorption – physisorption and chemisorption; factors affecting adsorption of gases on solids; catalysis : homogenous and heterogeneous, activity and selectivity: enzyme catalysis; colloidal state: distinction between true solutions, colloids and suspensions; lyophilic, lyophobic, multimolecular and macromolecular colloids; properties of colloids; Tyndall effect, Brownian movement, electrophoresis, coagulation; emulsion – types of emulsions.

Unit-21: General Principles and Processes of Isolation of Elements

Principles and methods of extraction - concentration, oxidation, reduction electrolytic method and refining; occurrence and principles of extraction of aluminium, copper, zinc and iron.

Unit-22: p-Block Elements

Group 15 elements

General introduction, electronic configuration, occurrence, oxidation states, trends in physical and chemical properties; nitrogen - preparation, properties and uses; compounds of nitrogen: preparation and properties of ammonia and nitric acid, oxides of nitrogen (structure only); Phosphorous-allotropic forms; compounds of phosphorous: preparation and properties of phosphine, halides (PCl_3 , PCl_5) and oxoacids

Unit-23: Group 16 elements

General introduction, electronic configuration, oxidation states, occurrence, trends in physical and chemical properties; dioxygen: preparation, properties and uses; simple oxides; Ozone. Sulphur - allotropic forms; compounds of sulphur: preparation, properties and uses of sulphur dioxide; sulphuric acid: industrial process of manufacture, properties and uses, oxoacids of sulphur (structures only).

Unit-24: Group 17 elements

General introduction, electronic configuration, oxidation states, occurrence, trends in physical and chemical properties; compounds of halogens: preparation, properties and uses of chlorine and hydrochloric acid, interhalogen compounds, oxoacids of halogens (structures only).

Unit-25: Group 18 elements

General introduction, electronic configuration. Occurrence, trends in physical and chemical properties, uses.

Unit-26: d and f Block Elements

General introduction, electronic configuration, occurrence and characteristics of transition metals, general trends in properties of the first row transition metals – metallic character, ionization enthalpy, oxidation states, ionic radii, colour catalytic property, magnetic properties, interstitial compounds, alloy formation preparation and properties of $K_2Cr_2O_7$ and $KMnO_4$.

Lanthanoids - electronic configuration, oxidation states, chemical reactivity and lanthanoid contraction.

Actinoids - Electronic configuration, oxidation states.

Unit-27: Coordination Compounds

Coordination compounds - Introduction, ligands, coordination number, colour, magnetic properties and shapes, IUPAC nomenclature of mononuclear coordination compounds. bonding; isomerism, importance of coordination compounds (in qualitative analysis, extraction of metals and biological systems).

Unit-28: Haloalkanes and Haloarenes

Haloalkanes: Nomenclature, nature of C-X bond, physical and chemical properties, mechanism of substitution reactions.

Haloarenes: Nature of C-X bond, substitution reactions (directive influence of halogen for monosubstituted compounds only) Uses and environmental effects of - dichloromethane, trichloromethane, tetrachloromethane, iodoform, freons, DDT.

Unit-29: Alcohols, Phenols and Ethers

Alcohols

Nomenclature, methods of preparation, physical and chemical properties (of primary alcohols only); identification of primary, secondary and tertiary alcohols; mechanism of dehydration, uses of methanol and ethanol. **Phenols** :Nomenclature, methods of preparation, physical and chemical properties, acidic nature of phenol, electrophilic substitution reactions, uses of phenols. **Ethers:** Nomenclature, methods of preparation, physical and chemical properties, uses.

Unit-30: Aldehydes, Ketones and Carboxylic Acids

Aldehydes and Ketones: Nomenclature, nature of carbonyl group, methods of preparation, physical and chemical properties mechanism of nucleophilic addition, reactivity of alpha hydrogen in aldehydes; uses.

Carboxylic Acids: Nomenclature, acidic nature, methods of preparation, physical and chemical properties; uses.

Unit-31: Organic compounds containing Nitrogen

Amines: Nomenclature, classification, structure, methods of preparation, physical and chemical properties, uses, identification of primary, secondary and tertiary amines.

Cyanides and Isocyanides - will be mentioned at relevant places in context.

Diazonium salts: Preparation, chemical reactions and importance in synthetic organic chemistry.

Unit-32: Biomolecules

Carbohydrates- Classification (aldoses and ketoses), monosaccharide (glucose and fructose), oligosaccharides (sucrose, lactose, maltose), polysaccharides (starch, cellulose, glycogen); importance.

Proteins - Elementary idea of α -amino acids, peptide bond, polypeptides, proteins, structure of amines-primary, secondary, tertiary structure and quaternary structures (qualitative idea only), denaturation of proteins; enzymes.

Vitamins - Classification and functions.

Nucleic Acids: DNA and RNA .

Unit-33: Polymers

Classification - natural and synthetic, methods of polymerization (addition and condensation), copolymerization. Some important polymers: natural and synthetic like polythene, nylon, polyesters, Bakelite, rubber.

Unit-34: Environmental Chemistry

Environmental pollution - air, water and soil pollution, chemical reactions in atmosphere, smog, major atmospheric pollutants; acid rain, ozone and its reactions, effects of depletion of ozone layer, greenhouse effect and global warming - pollution due to industrial wastes; green chemistry as an alternative tool for reducing pollution, strategy for control of environmental pollution.

Unit-35: Chemistry in Everyday life

1. **Chemicals in medicines** - analgesics, tranquilizers, antiseptics, disinfectants, antimicrobials, antifertility drugs, antibiotics, antacids, antihistamines.
2. **Chemicals in food** - preservatives, artificial sweetening agents.
3. **Cleansing agents** - soaps and detergents, cleansing action.

BIOLOGY (BOTANY AND ZOOLOGY)

Unit : 1 The Living World

Nature and scope of Biology. Methods of Biology. Our place in the universe. Laws that govern the universe and life. Level of organization. Cause and effect relationship.

Being alive. What does it mean? Present approaches to understand life processes, molecular approach; life as an expression of energy; steady state and homeostasis; self duplication and survival; adaptation; death as a positive part of life.

Origin of life and its maintenance. Origin and diversity of life. Physical and chemical principles that maintain life processes. The living crust and interdependence. The positive and negative aspects of progress in biological sciences. The future of the living world, identification of human responsibility in shaping our future.

Unit : 2 Unit of Life

Cell as a unit of life. Small biomolecules; water, minerals, mono and oligosaccharides, lipids, amino acids, nucleotides and their chemistry, cellular location and function. Macromolecules in cells - their chemistry, cellular location and functional significance. Polysaccharides, proteins and nucleic acids. Enzymes; chemical nature, classification, mechanism in action-enzyme complex, allosteric modulation (brief), irreversible activation. Biomembranes; Fluid mosaic model of membrane, role in transport, recognition of external information (brief). Structural organization of the cell; light and electron microscopic views of cell, its organelles and their functions; nucleus mitochondria, chloroplasts, endoplasmic reticulum. Golgi complex, lysosomes, microtubules, cell wall, cilia and flagella, vacuoles, cell inclusions. A general account of cellular respiration. Fermentation, biological oxidation (A cycle outline), mitochondrial electron transport chain, high energy bonds and oxidative phosphorylation, cell reproduction; Process of mitosis and meiosis.

Unit : 3 Diversity of Life

Introduction. The enormous variety of living things, the need for classification to cope with this variety; taxonomy and phylogeny; shortcomings of a two kingdom classification as plants and animals; the five kingdom classification, Monera, Protista, Plantae, Fungi and Animalia; the basic features of five kingdom classification. Modes of obtaining nutrition- autotrophs and heterotrophs. Life style producers, consumers and decomposers. Unicellularity and multicellularity, phylogenetic relationships. Concepts of species, taxon and categories - hierarchical levels of classification; binomial nomenclature; principles of classification and nomenclature; identification and nature of viruses and bacteriophages; kingdom Monera-archaeobacteria - life in extreme environments; Bacteria, Actinomycetes, Cyanobacteria. Examples & illustration of autotrophic and heterotrophic life; mineralizes-nitrogen fixers; Monera in cycling matter; symbiotic forms; disease producers. Kingdom Protista-Eukaryotic unicellular organisms, development of flagella and cilia; beginning of mitosis; syngamy and sex. Various life styles shown in the major phyla. Evolutionary precursors of complex life forms. Diatoms, dinoflagellates, slime moulds, protozoans; symbiotic forms. Plant kingdom-complex autotrophs, red brown and green algae; conquest of land, bryophytes, ferns, gymnosperms and angiosperms. Vascularization; development of flower, fruit and seed. Kingdom fungi-lower fungi (Zygomycetes), higher fungi (Ascomycetes and Basidiomycetes); the importance of fungi. Decomposers; parasitic forms; lichens and mycorrhizae. Animal kingdom-animal body pattern and symmetry. The development of body cavity in invertebrate vertebrate phyla. Salient features with reference to habitat and example of phylum porifera, coelenterata, helminths, annelids, mollusca, arthropoda, echinoderms; chordata - (classes-fishes, amphibians, reptiles, birds and mammals) highlighting major characters.

Unit : 4 Organisms and Environment

Species: Origin and concept of species population, interaction between environment and population community. Biotic community, interaction between different species, biotic stability. Changes in the community. Succession. Ecosystem; interaction between biotic and abiotic components; major ecosystems, manmade ecosystem- Agro ecosystem. Biosphere; flow of energy, trapping of solar energy, energy pathway, food chain, food web, biogeochemical cycles, calcium and sulphur, ecological imbalance and its consequences. Conservation of natural resources; renewable and non-renewable (in brief). Water and land management, wasteland development. Wild life and forest conservation; causes for the extinction of some wild life, steps taken to conserve the remaining species, concept of endangered species-Indian

examples, conservation of forests; Indian forests, importance of forests, hazards of deforestation, concept of afforestation. Environmental pollution; air and water pollution, sources, major pollutants of big cities of our country, their effects and methods of control, pollution due to nuclear fallout and waste disposal, effect and control, noise pollution; sources and effects.

Unit : 5 Multicellularity : Structure and Function - Plant Life

Form and function. Tissue system in flowering plants; meristematic and permanent. Mineral nutrition-essential elements, major functions of different elements, passive and active uptake of minerals. Modes of nutrition, transport of solutes and water in plants. Photosynthesis; photochemical and biosynthetic phases, diversity in photosynthetic pathways, photosynthetic electron transport and photophosphorylation, photorespiration. Transpiration and exchange of gases. Stomatal mechanism. Osmoregulation in plants: water relations in plant cells, water potential. Reproduction and development in Angiosperms; asexual and sexual reproduction. Structure and functions of flower: development of male and female gametophytes in angiosperms, pollination, fertilization and development of endosperm, embryo seed and fruit. Differentiation and organ formation. Plant hormones and growth regulation; action of plant hormones in relation to seed dormancy and germination, apical dominance, senescence and abscission. Applications of synthetic growth regulators. A brief account of growth and movement in plants.

Unit : 6 Multicellularity : Structure and Function - Animal Life

Animal tissues, epithelial, connective, muscular, nerve. Animal nutrition, organs of digestion and digestive process, nutritional requirements for carbohydrates, proteins, fats, minerals and vitamins; nutritional imbalances and deficiency diseases. Gas exchange and transport: Pulmonary gas exchange and organs involved, transport of gases in blood, gas exchange in aqueous media circulation: closed and open vascular systems, structure and pumping action of heart, arterial blood pressure, lymph. Excretion and osmoregulation. Ammonotelism, Ureotelism, ureotelism, excretion of water and urea with special reference to man. Role of kidney in regulation of plasma, osmolarity on the basis of nephron structure, skin and lungs in excretion. Hormonal coordination; hormones of mammals, role of hormones as messengers and regulators. Nervous coordination, central autonomic and peripheral nervous systems, receptors, effectors, reflex action, basic physiology of special senses, integrative control by neuroendocrinal systems. Locomotion: joints, muscle movements, types of skeletal muscles according to types of movement, basic aspects of human skeleton. Reproduction; human reproduction, female reproductive cycles. Embryonic development in mammals (upto three germ layers), growth, repair and ageing.

Unit : 7 Continuity of Life

Heredity and variation: Introduction, Mendel's experiments with peas and concepts of factors. Mendel's laws of inheritance. Genes: Packaging of hereditary material in prokaryotes-bacterial chromosome and plasmid; and eukaryote chromosomes. Extranuclear genes, viral genes. Linkage (genetic) maps. Sex determination and sex linkage. Genetic material and its replication, gene manipulation. Gene expression; genetic code, transcription, translation, gene regulation. Molecular basis of differentiation.

Unit : 8 Origin and Evolution of Life

Origin of life: living and non-living, chemical evolution, organic evolution; Oparin ideas, Miller-Urey experiments. Interrelationship among living organisms and evidences of evolution: fossil records including geological scale, Morphological evidence - homology, vestigial organs, embryological similarities and biogeographical evidence.

Darwin's two major contributions. Common origin of living organisms and recombination as source of variability, selection and variation, adaptation (Lederberg's replica plating experiment for indirect selection of bacterial mutants), reproductive isolation, speciation. Role of selection, change and drift in determining composition of population. Selected examples: industrial melanism; drug resistance, mimicry, malaria in relation to G-6-PD deficiency and sickle cell disease. Human evolution: Palaeontological evidence, man's place among mammals. Brief idea of Dryopithecus, Australopithecus, *Homo erectus*, *H. neanderthalensis*, Cro-Magnon man and *Homo sapiens*. Human chromosomes, similarity in different racial groups. Comparison with chromosomes of non-human primates to indicate common origin; Cultural vs. biological evolution.

Mutation: origin and types of mutation, their role in speciation.

Unit : 9 Application of Biology

Introduction, role of biology, in the amelioration of human problems. Domestication of plant- a historical account, improvement of crop plants; Principles of plant breeding and plant introduction. Use of fertilizers, their economic and ecological aspects.

Use of pesticides: advantages and hazards. Biological methods of pest control. Crops today. Current concerns, gene pools and genetic conservation. Underutilized crops with potential uses of oilseeds, medicines, beverages, spices, fodder, New crops-Leucaena (Subabul), Jojoba, Guayule, winged bean, etc. Biofertilizers - green manure, crop residues

and nitrogen fixation (symbiotic, non symbiotic). Applications of tissue culture and genetic engineering in crops. Domestication and introduction of animals. Livestock, poultry, fisheries (fresh water, marine, aquaculture). Improvement of animals: principles of animal breeding. Major animal diseases and their control. Insects and their products (silk, honey, wax and lac). Bioenergy-biomass, wood (combustion; gasification, ethanol). Cow dung cakes, gobar gas, plants as sources of hydrocarbons for producing petroleum, ethanol from starch and lignocellulose. Biotechnology, application in health and agriculture, genetically modified (GM) organisms, bio-safety issues. A brief historical account-manufacture of cheese, yoghurt, alcohol, yeast, vitamins, organic acids, antibiotics, steroids, dextrins. Scaling up laboratory findings to Industrial production, sewage treatment. Production of insulin, human growth hormones, interferon. Communicable diseases including STD and diseases spread through 'blood transfusion (hepatitis, AIDS, etc) Immune response, vaccine and antisera. Allergies and Inflammation. Inherited diseases and dysfunctions, sex-linked diseases, genetic incompatibilities, and genetic counseling. Cancer-major types, causes, diagnosis and treatment. Tissue and organ transplantation. Community health services and measures; blood banks; mental health, smoking, alcoholism and drug addiction-physiological symptoms and control measures. Industrial wastes, toxicology, pollution-related diseases. Biomedical engineering - spare parts for man, instruments for diagnosis of diseases and care. Human population related diseases. Human population, growth, problems and control, inequality between sexes, control measures; test-tube babies, amniocentesis. Future of Biology.

MATHEMATICS

Unit-1: Sets and Functions

- Sets** :Sets and their representations. Empty set. Finite & Infinite sets. Equal sets. Subsets, Subsets of the set of real numbers especially intervals (with notations). Power set. Universal set. Venn diagrams. Union and Intersection of sets. Difference of sets. Complement of a set.
- Relations & Functions**: Ordered pairs, Cartesian product of sets. Number of elements in the cartesian product of two finite sets. Cartesian product of the reals with itself (upto $R \times R \times R$). Definition of relation, Types of relations: reflexive, symmetric, transitive and equivalence relations. One to one and onto functions, composite functions, inverse of a function. Binary operations, Pictorial representation of a function, domain. Co-domain and range of a relation. Function as a special kind of relation from one set to another. Real valued function of the real variable, domain and range of these functions, constant, identity, polynomial, rational, modulus, signum and greatest integer functions with their graphs. Sum, difference, product and quotients of functions.
- Trigonometric Functions**: Positive and negative angles. Measuring angles in radians & in degrees and conversion from one measure to another. Definition of trigonometric functions with the help of unit circle. Truth of the identity $\sin^2 x + \cos^2 x = 1$, for all x . Signs of trigonometric functions and sketch of their graphs. Expressing $\sin (x+y)$ and $\cos (x+y)$ in terms of $\sin x$, $\sin y$, $\cos x$ & $\cos y$. Deducing the identities like the following:

$$\tan(x \pm y) = \frac{\tan x \pm \tan y}{1 \pm \tan x \tan y}, \quad \cot(x \pm y) = \frac{\cot x \cot y \pm 1}{\cot y \pm \cot x}$$

$$\cos x + \cos y = 2 \cos \frac{x+y}{2} \cos \frac{x-y}{2}$$

$$\sin x - \sin y = 2 \cos \frac{x+y}{2} \sin \frac{x-y}{2} \quad \cos x - \cos y = -2 \sin \frac{x+y}{2} \sin \frac{x-y}{2}$$

Identities related to $\sin 2x$, $\cos 2x$, $\tan 2x$, $\sin 3x$, $\cos 3x$ and $\tan 3x$. General solution of trigonometric equations of the type $\sin \theta = \sin \alpha$, $\cos \theta = \cos \alpha$ and $\tan \theta = \tan \alpha$.

Inverse Trigonometric Functions: Definition, range, domain, principal value branches. Graphs of inverse trigonometric functions. Elementary properties of inverse trigonometric functions.

Properties of triangles, including centroid, incentre, circum-centre and orthocentre, Solution of triangles. Heights and Distances.

Unit-2: Algebra

- Principle of Mathematical Induction**: Processes of the proof by induction, motivating the application of the method by looking at natural numbers as the least inductive subset of real numbers. The principle of mathematical induction and simple applications.

- Complex Numbers and Quadratic Equations:** Need for complex numbers, especially -1 , to be motivated by inability to solve every quadratic equation. Brief description of algebraic properties of complex numbers. Argand plane and polar representation of complex numbers. Statement of Fundamental Theorem of Algebra, solution of quadratic equations in the complex number system.
- Linear Inequalities:** Linear inequalities. Algebraic solutions of linear inequalities in one variable and their representation on the number line. Graphical solution of linear inequalities in two variables. Solution of system of linear inequalities in two variables- graphically.
- Permutations & Combinations:** Fundamental principle of counting. Factorial n . $(n!)$. Permutations and combinations, derivation of formulae and their connections, simple applications.
- Binomial Theorem:** History, statement and proof of the binomial theorem for positive integral indices. Pascal's triangle, General and middle term in binomial expansion, simple applications.
- Sequence and Series:** Sequence and Series. Arithmetic progression (A. P.). arithmetic mean (A.M.) Geometric progression (G.P.), general term of a G.P., sum of n terms of a G.P., geometric mean (G.M.), relation between A.M. and G.M. Sum to n terms of the special series $\sum n$, $\sum n^2$ and $\sum n^3$.
- Matrices:** Concept, notation, order, equality, types of matrices, zero matrix, transpose of a matrix, symmetric and skew symmetric matrices. Addition, multiplication and scalar multiplication of matrices, simple properties of addition, multiplication and scalar multiplication. Non-commutativity of multiplication of matrices and existence of non-zero matrices whose product is the zero matrix (restrict to square matrices of order 2). Concept of elementary row and column operations. Invertible matrices and proof of the uniqueness of inverse, if it exists.
- Determinants:** Determinant of a square matrix (up to 3×3 matrices), properties of determinants, minors, cofactors and applications of determinants in finding the area of a triangle. Adjoint and inverse of a square matrix. Consistency, inconsistency and number of solutions of system of linear equations by examples, solving system of linear equations in two or three variables (having unique solution) using inverse of a matrix.

Unit-3: Coordinate Geometry

- Straight Lines:** Slope of a line and angle between two lines. Various forms of equations of a line: parallel to axes, point-slope form, slope-intercept form, two-point form, intercepts form and normal form. General equation of a line. Distance of a point from a line.
- Conic Sections:** Sections of a cone: circle, ellipse, parabola, hyperbola, a point, a straight line and pair of intersecting lines as a degenerated case of a conic section. Standard equations and simple properties of parabola, ellipse and hyperbola. Standard equation of a circle.
- Introduction to Three-dimensional Geometry:** Coordinate axes and coordinate planes in three dimensions. Coordinates of a point. Distance between two points and section formula.

Unit-4: Calculus

- Limits and Derivatives:** Derivative introduced as rate of change both as that of distance function and geometrically, intuitive idea of limit. Definition of derivative, relate it to slope of tangent of the curve, derivative of sum, difference, product and quotient of functions. Derivatives of polynomial and trigonometric functions.
- Continuity and Differentiability:** Continuity and differentiability, derivative of composite functions, chain rule, derivatives of inverse trigonometric functions, derivative of implicit function. Concept of exponential and logarithmic functions and their derivative. Logarithmic differentiation. Derivative of functions expressed in parametric forms. Second order derivatives. Rolle's and Lagrange's Mean Value Theorems (without proof) and their geometric interpretations.
- Applications of Derivatives:** Applications of derivatives: rate of change, increasing/decreasing functions, tangents & normals, approximation, maxima and minima (first derivative test motivated geometrically and second derivative test given as a provable tool). Simple problems.
- Integrals:** Integration as inverse process of differentiation. Integration of a variety of functions by substitution, by partial fractions and by parts; only simple integrals of the type

$$\int \frac{dx}{x^2 \pm a^2} \quad \int \frac{dx}{\sqrt{x^2 \pm a^2}} \quad \int \frac{dx}{\sqrt{a^2 - x^2}} \quad \int \frac{dx}{ax^2 + bx + c} \quad \int \frac{dx}{\sqrt{ax^2 + bx + c}} \quad \int \frac{(px + q)}{ax^2 + bx + c} dx$$

$$\int \frac{(px + q)}{\sqrt{ax^2 + bx + c}} dx \quad \int \sqrt{a^2 \pm x^2} dx \quad \text{and} \quad \int \sqrt{x^2 - a^2} dx$$

to be evaluated. Definite integrals as a limit of a sum, Fundamental Theorem of Calculus (without proof). Basic properties of definite integrals and evaluation of definite integrals.

- Applications of the Integrals:** Applications in finding the area under simple curves, especially lines, areas of circles/ parabolas/ellipses (in standard form only), area between the two above said curves.

6. **Differential Equations:** Definition, order and degree, general and particular solutions of a differential equation. Formation of differential equation whose general solution is given. Solution of differential equations by method of separation of variables, homogeneous differential equations of first order and first degree. Solutions of linear

differential equation of the type: $\frac{dy}{dx} + py = q$, where p and q are functions of x.

Unit-5: Vectors and Three-Dimensional Geometry

1. **Vectors:** Vectors and scalars, magnitude and direction of a vector. Direction cosines/ratios of vectors. Types of vectors (equal, unit, zero, parallel and collinear vectors), position vector of a point, negative of a vector, components of a vector, addition of vectors, multiplication of a vector by a scalar, position vector of a point dividing a line segment in a given ratio. Scalar (dot) product of vectors, projection of a vector on a line. Vector (cross) product of vectors.
2. **Three-dimensional Geometry:** Direction cosines/ratios of a line joining two points. Cartesian and vector equation of a line, coplanar and skew lines, shortest distance between two lines. Cartesian and vector equation of a plane. Angle between (i) two lines, (ii) two planes. (iii) a line and a plane. Distance of a point from a plane.

Unit-6: Linear Programming

Linear Programming: Introduction, definition of related terminology such as constraints, objective function, optimization, different types of linear programming (L.P.) problems, mathematical formulation of L.P. problems, graphical method of solution for problems in two variables, feasible and infeasible regions, feasible and infeasible solutions, optimal feasible solutions (up to three non-trivial constraints).

Unit-7: Mathematical Reasoning

Mathematical Reasoning: Mathematically acceptable statements. Connecting words/ phrases - consolidating the understanding of "if and only if (necessary and sufficient) condition", "implies", "and/or", "implied by", "and", "or", "there exists" and their use through variety of examples related to real life and Mathematics. Validating the statements involving the connecting words, difference between contradiction, converse and contrapositive.

Unit-8: Statistics & Probability

1. **Statistics:** Measures of central tendency, mean, median and mode from ungrouped/grouped data. Measures of dispersion, mean deviation, variance and standard deviation from ungrouped/grouped data. Correlation, regression lines.
2. **Probability:** Random experiments: outcomes, sample spaces (set representation). Events: occurrence of events, 'not', 'and' and 'or' events, exhaustive events, mutually exclusive events Axiomatic (set theoretic) probability, Probability of an event, probability of 'not', 'and' & 'or' events. Multiplication theorem on probability. Conditional probability, independent events, total probability, Bayes' theorem, Random variable and its probability distribution, mean and variance of stochastic variable. Repeated independent (Bernoulli) trials and Binomial distribution.

Unit-9: Statics

Introduction, basic concepts and basic laws of mechanics, force, resultant of forces acting at a point, parallelogram law of forces, resolved parts of a force, Equilibrium of a particle under three concurrent forces. Triangle law of forces and its converse, Lami's theorem and its converse, Two Parallel forces, like and unlike parallel forces, couple and its moment.

Unit-10: Dynamics

Speed and velocity, average speed, instantaneous speed, acceleration and retardation, resultant of two velocities. Motion of a particle along a line, moving with constant acceleration. Motion under gravity. Laws of motion, Projectile motion.

AGRICULTURE

Unit-1: Agrometeorology, Genetics and Plant Breeding, Biochemistry and Microbiology

Agrometeorology: Elements of Weather-rainfall, temperature, humidity, wind velocity, Sunshine weather forecasting, climate change in relation to crop production.

Genetics & Plant Breeding : (a) Cell and its structure, cell division-mitosis and meiosis and their significance (b) Organisation of the genetic materials in chromosomes, DNA and RNA (c) Mendel's laws of inheritance. Reasons for the success of Mendel in his experiments, Absence of linkage in Mendel's experiments. (d) Quantitative inheritance, continuous and discontinuous variation in plants. (e) Monogenic and polygenic inheritance. (f) Role of Genetics in Plant breeding, self and cross-pollinated crops, methods of breeding in field crops-introduction, selection, hybridization, mutation and polyploidy, tissue and cell culture. (g) Plant Biotechnology-definition and scope in crop production.

Biochemistry: pH and buffers, Classification and nomenclature of carbohydrates; proteins; lipids; vitamins and enzymes.

Microbiology: Microbial cell structure, Micro-organisms- Algae, Bacteria, Fungi, Actinomycetes, Protozoa and Viruses. Role of micro-organisms in respiration, fermentation and organic matter decomposition

Unit-2: Livestock Production

Scope and importance :(a) Importance of livestock in agriculture and industry, White revolution in India. (b) Important breeds Indian and exotic, distribution of cows, buffaloes and poultry in India.

Care and management :(a) Systems of cattle and poultry housing (b) Principles of feeding, feeding practices. (c) Balanced ration-definition and ingredients. (d) Management of calves, bullocks, pregnant and milch animals as well as chicks, ducks and layers, poultry. (e) Signs of sick animals, symptoms of common diseases in cattle and poultry, Rinderpest, black quarter, foot and mouth, mastitis and haemorrhagic septicaemia, coccidiosis, Fowl pox and Ranikhet disease, their prevention and control.

Artificial Insemination :Reproductive organs, collection, dilution and preservation of semen and artificial insemination, **role of artificial insemination in cattle improvement. Livestock Products:** Processing and marketing of milk and Milk products.

Unit-3: Crop Production

Introduction :(a) Targets and achievements in foodgrain production in India since independence and its future projections, sustainable crop production, commercialization of agriculture and its scope in India. (b) Classification of field crops based on their utility-cereals, pulses, oil seeds, fibre, sugar and forage crops.

Soil, Soil fertility, Fertilizers and Manures: (a) Soil, soil pH, Soil texture, soil structure, soil organisms, soil tilth, soil fertility and soil health. (b) Essential plant nutrients, their functions and deficiency symptoms. (c) Soil types of India and their characteristics. (d) Organic manure, common fertilizers including straight, complex, fertilizer mixtures and biofertilizers; integrated nutrient management system.

Irrigation and Drainage: (a) Sources of irrigation (rain, canals, tanks, rivers, wells, tubewells). (b) Scheduling of irrigation based on critical stages of growth, time interval, soil moisture content and weather parameters. (c) Water requirement of crops. (d) Methods of irrigation and drainage. (e) Watershed management

Weed Control :Principles of weed control, methods of weed control (cultural, mechanical, chemical, biological and Integrated weed management).

Crops: Seed bed preparation, seed treatment, time and method of sowing/planting, seed rate; dose, method and time of fertilizer application, irrigation, interculture and weed control; common pests and diseases, caused by bacteria, fungi virus and nematode and their control, integrated pest management, harvesting, threshing, post harvest technology: storage, processing and marketing of major field crops-Rice, wheat, maize, sorghum, pearl millet, groundnut, mustard, pigeon-pea, gram, sugarcane, cotton and berseem.

Unit-4: Horticulture

- (a) Importance of fruits and vegetables in human diet, Crop diversification & processing Industry. (b) Orchard-location and layout, ornamental gardening and kitchen garden. (c) Planting system, training, pruning, intercropping, protection *from* frost and sunburn. (d) Trees, shrubs, climbers, annuals, perennials-definition and examples. Propagation by seed, cutting, budding, layering and grafting. (e) Cultivation practices, processing and marketing of: (i) Fruits - mango, papaya, banana, guava, citrus, grapes. (ii) Vegetables - Radish, carrot, potato, onion, cauliflower, brinjal, tomato, spinach and cabbage. (iii) Flowers - Gladiolus, canna, chrysanthemums, roses and marigold. (f) Principles and methods of fruit and vegetable preservation. (g) Preparation of jellies, jams, ketchup, chips and their packing.

Note: Besides above syllabi, any other question of scientific and educational importance may be asked.

ANNEXURE-II
**UNIVERSITY-WISE, SUBJECT-WISE TENTATIVE NUMBER OF SEATS FOR UG ADMISSION FOR THE
ACADEMIC SESSION 2016–2017**

Sl. No.	Name of University	Agriculture						Horticulture					
		Gen	SC	ST	Total	PC	UPS	Gen	SC	ST	Total	PC	UPS
1.	AAU, Anand, Gujarat	22	4	2	28	1	1	7	1	1	9	0	0
2.	AAU, Jorhat, Assam	20	4	2	26	1	1						
3.	AU, Jodhpur	9	2	1	12	0	0						
4.	AU, Kota							3	1	0	4	0	0
5.	ANGRAU, Hyderabad, AP	52	10	5	67	2	1						
6.	BAU, Kanke, Ranchi, Jharkhand	6	1	1	8	0	0						
7.	BAU Sabour, Bhagalpur, Bihar	20	4	2	26	1	1	3	1	0	4	0	0
8.	BCKVV, Mohanpur, WB	12	2	1	15	0	0	4	1	0	5	0	0
9.	BHU, Varanasi, UP	9	3	1	13 +5(OBC)	1	0						
10.	CAU, Imphal, Manipur	9	3	2	14 +5(OBC)	1	1	4	2	1	7 + 3(OBC)	1	0
11.	CCSHAU, Hisar, Haryana	18	3	2	23	1	1						
12.	CSAUA&T, Kanpur, UP	14	3	1	18	1	0	3	1	1	5		
13.	CSKHPKV, Palampur, HP	5	1	0	6	0	0						
14.	Dr BSKKV, Dapoli, MS	14	3	2	19	1	0	11	2	1	14	1	0
15.	Dr PDKV, Akola, MS	61	12	6	79	2	2	4	1	0	5	0	0
16.	Dr YSPUH&F, Solan, HP							6	1	1	8	0	0
17.	Dr. YSR Horticultural Univ. Venkataramannagudem, AP							25	5	2	32	1	1
18.	GBPUA&T, Pantnagar, UK	30	6	3	39	1	1						
19.	IGKV, Raipur, CG	42	8	4	54	2	1						
20.	JAU, Junagadh, Gujarat	13	2	1	16	0	0						
21.	JNKVV, Jabalpur, MP	34	7	3	44	1	1						
22.	KAU, Thrissur, Kerala	25	5	2	32	1	1						
23.	MPKV, Rahuri, MS	61	12	6	79	2	2	4	1	0	5	0	0
24.	MPUA&T, Udaipur, Raj.	13	3	1	17	1	0						
25.	MSKJUAT, Banda, UP	5	1	1	7	0	0	5	1	1	7	0	0
26.	Nagaland University, SASARD, Medziphema	5	1	1	7 +2(OBC)	0	0						
27.	NAU, Navsari, Gujarat	14	3	1	18	1	0	7	1	1	9	0	0
28.	NDUA&T, Faizabad, UP	14	3	1	18	1	0	7	1	1	9	0	0
29.	OUA&T, Bhubaneswar, Odisha	24	5	2	31	1	1	3	1	0	4	0	0

30.	PAU, Ludhiana, PB	12	2	1	15	0	1						
31	PJTSAU, Telangana	29	6	3	38	1	1						
32.	PSBVB, Sriniketan (W.B.)	5	1	1	7 +2(OBC)	0	0						
33.	RAU, Pusa, Bihar	7	1	1	9	0	0						
34.	RLBCAU, Jhansi	15	5	2	22 + 8 (OBC)	1	1	10	3	2	15 +5	1	1
35.	RVSKVV, Gwalior, MP	26	5	2	33	1	1	5	1	0	6	0	0
36.	SHIATS, Allahabad, UP	14	3	1	18	1	0	9	2	1	12	0	0
37.	SKDAU, Sardarkrushinagar, Gujarat	12	2	1	15	0	0	5	1	1	7	0	0
38.	SKLTSHU, Hyderabad							12	2	1	15	1	
39.	SKNAU, Jobner, Raj.	24	4	2	30	1	1						
40.	SKRAU, Bikaner, Raj.	9	2	1	12	0	0						
41.	SKUAS&T of J, Jammu, J&K	8	1	1	10	0	0						
42.	SKUAS&T of K, Srinagar, J&K	6	1	1	8	0	0	7	1	1	9	0	0
43.	SVBPUA&T, Meerut, UP	14	3	1	18	1	0						
44.	TNAU, Coimbatore, TN	70	13	7	90	3	2	15	3	1	19	1	1
45.	UAHS, Simoga	8	2	1	11	0	0	13	2	1	16	1	1
46.	UAS, Bengaluru, Karnataka	46	9	5	60	2	1						
47.	UAS, Dharwad, Karnataka	48	9	5	62	2	1						
48.	UAS, Raichur, Karnataka	25	5	2	32	1	1						
49.	UBKV, Cooch Behar, WB	8	1	1	10	0	0	3	0	0	3	0	0
50.	UHS, Bagalkot, Karnataka							48	9	5	62	2	2
51.	UUHF, Bharsar, UK							4	1	0	5	0	0
52.	VNMKV, Parbhani, MS	56	11	5	72	2	2	5	1	0	6	0	0
	Total	993	197	98	1310	40	26	232	47	23	310	9	6

Sr.	Name of University	Forestry						Fisheries					
No.		Gen	SC	ST	Total	PC	UPS	Gen	SC	ST	Total	PC	UPS
1.	AAU, Jorhat, Assam							4	1	1	6	0	0
2.	AU, Kota	2	0	0	2	0	0						
3.	BAU, Ranchi, JD	3	1	0	4	0	0						
4.	CAU, Imphal, Manipur	2	1	0	3 +1 (OBC)	0	0	3	1	0	4 +1 (OBC)	0	0
5.	CKV, AnjoraDurg, CG							4	1	0	5	0	0
6.	CSAUAT, Kanpur	4	1	0	5			4	1	1	6	1	0
7.	Dr BSKKV, Dapoli, MS	3	1	1	5	0	0	5	1	0	6	0	0
8.	Dr PDKV, Akola, MS	4	1	0	5	0	0						
9.	Dr YSPUH&F, Solan, HP	5	1	1	7	1	0						
10.	GADVASU, Ludhiana, PB							3	0	0	3	0	0
11.	GBPUA&T, Pantnagar, UK							4	1	1	6	1	0
12.	JAU, Junagadh, Gujarat							7	1	1	9	0	1

13.	JNKVV, Jabalpur, MP	3	1	0	4*	0	0						
14.	KAU, Thrissur, Kerala	4	1	0	5	0	0						
15.	KUFOS, Kochi, Kerala							5	1	1	7	0	1
16.	KVAFSU, Bidar, Karnataka							5	1	0	6*	0	0
17.	MAFSU, Nagpur, MS							7	2	1	10	1	0
18.	MPUA&T, Udaipur, Rajasthan							3	0	0	3	0	0
19.	NAU, Navsari, Gujarat	7	1	1	9	0	0						
20.	NDUA&T, Faizabad, UP							4	1	0	5	0	0
21.	OUA&T, Bhubaneswar, Orissa	4	0	0	4	0	0	3	0	0	3	0	0
22.	RAU, Pusa, Bihar							3	0	1	4	0	0
23.	RLBCAU, Jhansi	10	3	2	15 +5	1	1						
24.	SHIATS, Allahabad, UP	10	2	1	13	1	1						
25.	SKUAS&T(K), Srinagar, J&K	4	0	0	4	0	0	2	0	0	2	0	0
26.	SVV University, Tirupati, AP							4	1	0	5	0	0
27.	TNAU, Coimbatore, TN	5	1	1	7	0	0						
28.	TNPU, Nagapattinam, TN							4	1	1	6	0	0
29.	UAHS, Simoga	6	1	1	8	1	0						
30.	UAS, Dharwad, Karnataka	7	1	1	9	0	1						
31.	UUHF, Bharsar, UK	4	1	0	5	0	0						
32.	WBUA&FS, Kolkata, WB							4	1	0	5	0	0
	Total	76	18	9	120	4	3	78	15	8	102	3	2

+ For PCMB

× Candidate admitted provisionally to Forestry Course during counseling would have to pass the following Physical Fitness Test at the time of reporting for admission at the Agricultural University/College/Department :-

- (1) **Height** (i) Male (Gen., OBC, SC)=163 cm., ST= 152 cm.
(ii) Female (Gen., OBC, SC)=150 cm., ST= 145 cm.
- (2) **Chest girth** (i) Male=79 cm. to 84 cm. (Minimum 5 cm. expansion)
(ii) Female =74 cm. to 79 cm (Minimum 5 cm. expansion)
- (3) **Physical Capacity for Fast Walking infour hours**
(i) Male = 25 Km (ii) Female = 14 Km

Note: The minimum height limit in case of Gorkhas, Garhwali, Kumaoni and people of Manipur, Tripura, Sikkim & Laddakh is fixed at 152.5 cm.

Sr.	Name of University	Home Science						Sericulture					
No.		Gen	SC	ST	Total	PC	UPS	Gen	SC	ST	Total	PC	UPS
1.	AAU, Jorhat, Assam.	5	1	1	7	0	0						
2.	ANGRAU, Hyderabad, AP	9	2	1	12	1	0						
3.	CAU, Imphal, Manipur	3	1	0	4+1 (OBC)	0	0						
4.	CCSHAU, Hisar, Haryana	9	2	1	12	0	1						
5.	CSAUA&T, Kanpur, UP	5	1	0	6	0	0						
6.	CSKHPKV, Palampur, HP	3	1	0	4	0	0						
7.	GBPUA&T, Pantnagar, UK	16	3	2	21	1	1						

8.	MPUA&T, Udaipur, Rajasthan	5	1	0	6	0	0						
9.	NDUA&T, Faizabad, UP	7	1	1	9	0	0						
10.	OUA&T, Bhubaneswar, Orissa	4	1	0	5	0	0						
11.	PAU, Ludhiana, PB	6	1	1	8	0	0						
12.	PJTSAU, Hyderabad, Tela.	5	1	1	7	0	0						
13.	RAU, Pusa, Bihar	3	1	0	4	0	0						
14.	SHIATS, Allahabad, UP	7	1	1	9	1	0						
15.	SKDAU, Sardarkrushinagar, Gujarat	7	1	1	9	1	0						
16.	SKRAU, Bikaner, Rajasthan	5	1	0	6	0	0						
17.	SKUAS&T(K), Srinagar, J&K							1	0	0	1	0	0
18.	TNAU, Coimbatore, TN	5	1	1	7 ^x	0	0	4	1	0	5	0	0
19.	UAS, Bengaluru, Karnataka							6	1	1	8	1	0
20.	UAS, Dharwad, Karnataka	12	2	1	15	1	1						
21	VNMKV, Parbhani, MS	5	1	0	6	0	0						
	Total	121	24	12	158	5	3	11	2	1	14	1	0

X B.Sc. (Food Sci. & Nutrition)

Sr.	Name of University	Agricultural Engineering						Dairy Technology					
No.		Gen	SC	ST	Total	PC	UPS	Gen	SC	ST	Total	PC	UPS
1.	AAU, Anand, Gujarat	5	1	0	6	0	0	6	1	1	8	0	1
2.	ANGRAU, Hyderabad, AP	11	2	1	14	1	1						
3.	BAU, Sabour, Bihar							3	1	0	4	0	0
4.	BCKVV, Mohanpur, WB	3	1	0	4	0	0						
5.	CAU, Imphal, Manipur	3	1	1	5 +2 (OBC)								
6.	CCSHAU, Hisar, Haryana	5	1	0	6	0	0						
7.	CKV, Anjora, Durg, CG							7	1	1	9	1	0
8.	CSAUA&T, Kanpur, UP	5	1	0	6	0	0	5	1	0	6		
9.	Dr BSKKV, Dapoli, MS	7	2	1	10	0	1						
10.	Dr PDKV, Akola, MS	6	1	1	8	0	0						
11.	GADVASU, Ludhiana, PB							3	1	0	4	0	0
12.	GBPUA&T, Pantnagar, UK	7	1	1	9	1	0						
13.	IGKV, Raipur, CG	6	1	0	7	0	0						
14.	JAU, Junagadh, Gujarat	7	2	1	10	0	1						
15.	JNKVV, Jabalpur, MP	8	2	1	11	1	0						
16.	Kamdhenu University, Gandhinagar, Gujarat							7	2	1	10	0	0
17.	KAU, Thrissur, Kerala	5	1	1	7	0	0						
18.	KVAFSU, Bidar, Karnataka							4	1	1	6	0	0
19.	KVASU, Pookode, Wayanad							4	1	1	6	0	0
20.	MAFSU, Nagpur, MS							7	2	1	10	0	1
21.	MPKV, Rahuri, MS	7	2	1	10	1	0						
22.	MPUA&T, Udaipur, Raj.	7	1	0	8	0	0	4	1	0	5	0	0
23.	NAU, Navsari	4	0	0	4	0	0						

24.	NDRI, Karnal, Haryana							4	1	0	5 + 1 (OBC)	0	0
25.	NDUA&T, Faizabad, UP	7	1	1	9	1	0						
26.	OUA&T, Bhubaneswar, Orissa	4	1	0	5	0	0						
27.	PAU, Ludhiana, PB	8	2	1	11	1	0						
28.	PJTSAU, Hyderabad, Tela.	6	1	1	8	0	0						
29.	RAU, Pusa, Bihar	4	0	0	4	0	0						
30.	SHIATS, Allahabad, UP	21	4	2	27 ⁺	1	1	7	1	1	9	1	0
31.	SKDAU, Sardarkrushinagar, Gujarat	6	1	0	7 ^x	0	0	7	1	1	9 ⁻	1	0
32.	SKUAS&T (K), Srinagar, J&K	2	0	0	2	0	0						
33.	SPVNRTSUVAS, Hyderabad							4	0		4	0	0
34.	SVV University, Tirupati, AP							4	0	0	4	0	0
35.	TNAU, Coimbatore, TN	8	2	1	11	0	1						
36.	UAS, Bengaluru, Karnataka	6	2	1	9	0	0						
37.	UAS, Raichur, Karnataka	7	1	1	9	0	0						
38.	UBKV, Cooch Behar, WB	3	0	0	3	0	0						
39.	VNMKV, Parbhani, MS	7	1	1	9	0	0						
40.	WBUA&FS, Kolkata, WB							4	1	0	5	0	0
	Total	185	36	18	241	7	5	80	16	8	105	3	2

- Dairy & Food Technology

+ 9 seats for B.Tech. Water Resource Engineering

x B. Tech. (RE & EE)

Sr.	Name of University	Food Science/Food Technology						Agri. Mktg. & Coop.					
No.		Gen	SC	ST	Total	PC	UPS	Gen	SC	ST	Total	PC	UPS
1.	AAU, Anand, Gujarat	5	1	0	6 [*]			4	1	1	6 ^x	0	1
2.	ANGRAU, Hyderabad, AP	4	1	1	6 ⁺⁺⁺	0	0						
3.	CAU, Imphal, Manipur	3	1	0	4 +2 (OBC)	0	0						
4.	GBPUA&T, Pantnagar, UK	9	2	1	12	1	0						
5.	KAU, Thrissur, Kerala	4	1	0	5 ^c	0	0	5	1	0	6 ⁺	0	0
6.	MPUA&T, Udaipur, Rajasthan	4	0	0	4	0	0						
7.	PAU, Ludhiana, Punjab	7	1	1	9	1	0						
8.	PJTSAU, Hyderabad, Tela.	0	0	0	0	0	0	5	1	0	6 ⁺⁺	0	0
9.	SHIATS, Allahabad, UP	18	3	2	23 ^b	1	1						
10.	SKDAU, SK Nagar, Gujarat	2	1	0	3 ⁻	0	0						
11.	UAS, Bengaluru, Karnataka	7	1	1	9	0	0	7	1	1	9 ⁼	0	0
12.	UAS, Dharwad, Karnataka	3	1	0	4	0	0	9	2	1	12 ^a	1	0
13.	VNMKV, Parbhani, MS	7	1	1	9 [@]	0	1						
	Total	73	14	7	96	3	2	30	6	3	39	1	1

+ B.Sc. (Cooperation & Banking) 3 for PCB and 3 for PCM

* Food Processing Technology.

x Agril. Information Technology for PCM/PCB/PCMB.

= B.Sc. (Ag. Mkting& Cop.)for PCM (5) & PCB (4)

+++ for PCB

a For PCB

bB. Tech. Food Tech = 14, B.Sc. (Hons.) Food Tech.= 9 for PCM (5) & PCB (4)

- B.Sc. Food Quality Assurance for PCB/ PCMB

c B. Tech Food Engg.

@ B.Tech. (Food Tech.) for PCMB with English

Sr.	Name of University	Biotechnology					
No.		Gen	SC	ST	Total	PC	UPS
1.	Dr. PDKV, Akola	5	1	0	6 ⁺⁺	0	0
2.	Dr. YSPUH&F, Solan, HP	2	0	0	2 ⁻	0	0
3.	NAU, Navsari, Gujarat	6	1	1	8 ⁺⁺	1	0
4.	PAU, Ludhiana, Punjab	7	1	1	9 ⁻	0	0
5.	RAU, Pusa, Bihar	4	1	0	5	0	0
6.	SVBPUA&T, Meerut, UP	13	3	2	18 ^x	1	1
7.	SKDAU, SK Nagar, Gujrat	3	1	0	4	0	0
8.	SKUAST of J, Jammu, J&K	4	1	0	5	0	0
9.	TNAU, Coimbatore, TN	6	1	1	8	0	0
10.	UAS Bengaluru, Karnataka	7	1	1	9 ⁺	0	1
11.	VNMKV, Parbhani, MS	5	1	0	6 ⁺⁺	0	0
	Total	62	12	6	80	2	2

x B. Tech (Biotechnology) for PCM/PCB

+ B.Sc.(Agri Biotech) for PCB

- B.Sc. (Hons.) Biotech.for PCB/ PCM

++ For PCB

- NOTE:** 1. As approved by the Governing Body of the ICAR in its 234th Meeting held on 25.06.2015, filling of 15% seats in UG programmes in Agricultural Universities through ICAR's Entrance Examination may not be allowed for non-accredited colleges w.e.f. Academic Year 2016-17 excluding RLBCAU Jhansi.
2. The number of seats given above are indicative only and may change on account of 1. above. The final seat position would be known only at the time of counseling.
3. Reservation of seats for OBC would be as per Government of India directives and as per seat positions communicated by the Universities before counseling. Seats reserved for OBC will be applicable to Central Government Institutions for Higher Education namely, NDRI Karnal, BHU Varanasi, CAU Imphal, Nagaland University, RLBCAU Jhansi, SASARD Medziphema and ViswaBharati (PSB, VB) Shantiniketan Universities.
4. The seats reserved for PC/UPS categories will be provided to the candidates (horizontally) against the categories, i.e. Gen/SC/ST/OBC to which they belong. If the seat is not available in respective category then it would be drawn from Gen. Category, if available.

AUTHORITY LETTER AND UNDERTAKING FOR AUTHORISED REPRESENTATIVE FOR PARTICIPATION IN COUNSELING ON BEHALF OF CANDIDATE

AUTHORITY LETTER

I.....Son/Daughter of Shri
bearing Roll No.....do hereby authorize Shri/Mrs/Miss.....
Son/Wife/Daughter of Shri.....Resident of.....
.....
to represent me on.....(date) before the Committee for allotment of a seat in University / Institute. The
signature and Photograph of above named person.....are attested below:

Colored
Photograph
of the
Candidate same
as uploaded on
Application Form

Attested by the
Principal/Head of
school / college last
attended or current
Institution or by a
Gazetted Officer
(With full address of
Attesting Authority)

Name :

Roll No. :

Merit Rank :

Address :

.....

.....

(Signature of the authorized representative)

.....

(Attested by the Candidate)

I.....son/daughter of Shri.....
aged.....yearsmonth bearing Roll No. placed at Overall Merit-Rank
(in ICAR's All India Entrance Examination-UG-2016) do hereby solemnly affirm and undertake that the decision of my
authorized representative Shri/Mrs./Miss.....Son/Daughter/Wife of Shri
..... regarding allotment of seat in the University/Institute etc. on the date of
ICAR Counseling/personal appearance (.....) shall be binding on me and I shall not have any claim
whatsoever, other than the decision taken by my authorized representative on my behalf.

.....

(Signature of the candidate)

Name :

Roll No. :

Rank No.:

Note : Any authorized representative
Cannot represent more than two candidates.

SCHEDULED CASTE/ TRIBE CERTIFICATE-FORMAT

Format of certificate to be produced by the candidate belonging to SC / ST in support of reservation claim

CASTE CERTIFICATE

1. This is to certify that Shri/ Smt/ Kumari..... son/daughter of..... of village/town..... in district/Division of State/Union Territory..... belongs to the Caste/Tribe which is recognized as SC/ST under the Constitution (Scheduled Caste) Order, 1950; the Constitution (Scheduled Tribe) Order, 1950; the Constitution (Scheduled Caste) Union Territories Order, 1951; the Constitution (Scheduled Tribes) Union Territories Order, 1951, as amended by the SCs and STs List (Modification) Order, 1950; the Bombay Reorganization Act, 1960; the Punjab Reorganization Act, 1966; the State of HP Act, 1970; the North Eastern Areas (Reorganization) Act, 1971 and the SCs and STs Order (Amendment) Act, 1976; the Constitution (Jammu & Kashmir) SC Order, 1956; the Constitution (Andaman & Nicobar islands) SC Order 1959 as amended by SCs and STs Order (Amendment) Act, 1976; the Constitution (Dadra and Nagar Haveli) SCs Order, 1962; the Constitution (Dadra and Nagar Haveli) STs Order, 1962; the Constitution (Pondicherry) SCs Order, 1964; the Constitution Scheduled Tribes (Uttar Pradesh) Order, 1967; the Constitution (Goa, Daman & Diu) SCs Order, 1968; the Constitution (Nagaland) STs Order, 1970; the Constitution (Sikkim) SCs Order, 1968 or any such Govt. of India directive applicable at the time of counseling.
2. Applicable in the case of SC/ST persons who have migrated from State/Union Territory Administration to another State/Union Territory. The certificate is issued on the basis of the SC/ST certificate to Shri/Smt. father/mother of Shri/Smt/Kumari..... of village/town..... in district/division..... of the State/Union Territory who belongs to the Scheduled Caste/Scheduled Tribe in the State/Union Territory issued by the (name of the prescribed authority) vide their No dated.....
3. Shri/Smt/Kumari.....and/or his/her family ordinarily reside(s) in village/town..... of district.....of State/Union Territory of

Signature

Designation (with seal of office)

Place (State/Union Territory)

Date

*Please delete the words which are not applicable. Please quote the specific Presidential Order.

NOTE: The term "Ordinarily reside(s)" used here will have the same meaning as in Section 20 of the Representation of the People's Act, 1950.

Authorities empowered to issue SC/ST certificates

1. District Magistrate/Additional District Magistrate/Deputy Commissioner/Additional Deputy Commissioner/ Deputy Collector/First Class Stipendiary Magistrate/City Magistrate/Sub-divisional Magistrate/Taluka Magistrate/Executive Magistrate/Extra Assistant Commissioner not below the rank of First Class Stipendiary Magistrate.
2. Chief Presidency Magistrate/Additional Chief Presidency Magistrate/Presidency Magistrate
3. Revenue Officers, not below the rank of Tehsildar
4. Sub-divisional Officer of the area where the candidate and/or his family normally resides
5. Administrator/Secretary to Administrator/Development Officer (Lakshadweep Islands)

**CERTIFICATE TO BE PRODUCED BY OTHER BACKWARD CLASSES-NON
CREAMY LAYER (OBC-NCL) APPLYING FOR ADMISSION TO CENTRAL
EDUCATIONAL INSTITUTIONS (CEIs), UNDER THE GOVERNMENT OF INDIA**

This is to certify that Shri/Smt./Kum.Son/Daughter of Shri/Smt.
..... of Village/Town.....District/Division
.....in the State belongs to the
.....Community which is recognized as a backward class under:

- (i) Resolution No. 12011/68/93-BCC(C) dated 10/09/93 published in the Gazette of India Extraordinary Part I Section I No186 dated 13/09/93.
- (ii) Resolution No. 12011/9/94-BCC dated 19/10/94 published in the Gazette of India Extraordinary Part I Section I No. 163 dated 20/10/94.
- (iii) Resolution No. 12011/7/95-BCC dated 24/05/95 published in the Gazette of India Extraordinary Part I Section I No. 88 dated 25/05/95.
- (iv) Resolution No. 12011/96/94-BCC dated 9/03/96.
- (v) Resolution No. 12011/44/96-BCC dated 6/12/96 published in the Gazette of India Extraordinary Part I Section I No. 210 dated 11/12/96.
- (vi) Resolution No. 12011/13/97-BCC dated 03/12/97.
- (vii) Resolution No. 12011/99/94-BCC dated 11/12/97.
- (viii) Resolution No. 12011/68/98-BCC dated 27/10/99.
- (ix) Resolution No. 12011/88/98-BCC dated 6/12/99 published in the Gazette of India Extraordinary Part I Section I No. 270 dated 06/12/99.
- (x) Resolution No. 12011/36/99-BCC dated 04/04/2000 published in the Gazette of India Extraordinary Part I Section I No. 71 dated 04/04/2000.
- (xi) Resolution No. 12011/44/99-BCC dated 21/09/2000 published in the Gazette of India Extraordinary Part I Section I No. 210 dated 21/09/2000.
- (xii) Resolution No. 12015/9/2000-BCC dated 06/09/2001.
- (xiii) Resolution No. 12011/1/2001-BCC dated 19/06/2003.
- (xiv) Resolution No. 12011/4/2002-BCC dated 13/01/2004.
- (xv) Resolution No. 12011/9/2004-BCC dated 16/01/2006.
- (xvi) Resolution No. 12011/14/2004-BCC dated 12/03/ 2007.
- (xvii) Resolution No.12011/16/2007-BCC dated 12/10/2007; Resolution No.12018/6/2005-BCC dated 30/07/2010; Resolution No. 12015/2/2007-BCC dated 18/08/2010; ResolutionNo. 12015/15/2008-BCC dated 16/06/2011; ResolutionNo.12015/13/2010-BC-II dated 08/12/2011; ResolutionNo.12015/5/2011-BC-II dated 17/02/2014; ResolutionNo. 20012/129/2009-BC-II dated 04/03/2014.

Shri/Smt./Kum.and/or his family ordinarily reside(s) in the
.....District/Division ofState. This is also to certify that
he/she does not belong to the persons/sections (Creamy Layer) mentioned in Column 3 of the Schedule to the
Government of India, Department of Personnel & Training O.M. No. 36012/22/93-Estt.(SCT) dated 08/09/93 which is
modified vide OM No. 36033/1/2013 Estt.(Res.) dated 27th May, 2013.

Dated:

District Magistrate/
Deputy Commissioner, etc.
Seal

NOTE:

- (a) The term 'Ordinarily' used here will have the same meaning as in Section 20 of the Representation of the People Act, 1950.
- (b) The authorities competent to issue Caste Certificates are indicated below:
- (i) District Magistrate / Additional Magistrate / Collector / Deputy Commissioner / Additional Deputy Commissioner/ Deputy Collector / Ist Class Stipendiary Magistrate / Sub-Divisional magistrate / Taluka Magistrate / Executive Magistrate / Extra Assistant Commissioner (not below the rank of Ist Class Stipendiary Magistrate).
- (ii) Chief Presidency Magistrate / Additional Chief Presidency Magistrate / Presidency Magistrate.
- (iii) Revenue Officer not below the rank of Tehsildar' and
- (iv) Sub-Divisional Officer of the area where the candidate and / or his family resides.

Declaration/Undertaking - For OBC Candidates only

I,son/daughter of Shri.....resident of village/town/city..... districtState hereby declare that I belong to the..... community which is recognised as a backward class by the Government of India for the purpose of reservation as per orders contained in Department of Personnel and Training Office Memorandum No.36012/22/93-Estt.(SCT), dated 8/9/1993. It is also declared that I do not belong to persons/sections (Creamy Layer) mentioned in Column 3 of the Schedule to the above referred Office Memorandum, dated 8/9/1993, which is modified vide Department of Personnel and Training Office Memorandum No. 36033/1/2013 Estt.(Res.) dated 27th May, 2013.

Signature of the Candidate

Place:

Date:

- **Declaration/undertaking not signed by Candidate will be rejected.**
- **False declaration will render the applicant liable for termination of registration at any time**

Creamy Layer Definition

OBC Creamy layer is defined comprehensively at <http://ncbc.nic.in/html/creamyayer.html>

All candidates for the OBC reserved seats should make sure that they do not satisfy any of the creamy layer criteria as listed in the website. Some general exclusion for quick reference (no way comprehensive) are as follows.

1. Any of the parents holds a constitutional position in Govt. of India.
2. Any one of the parents is a Class I officer.
3. Both the parents are Class II officers.
4. Any one of the parents is employed in an equivalent rank to Class I officer or both parents equivalent to Class II officer in a public sector, insurance companies, banks, universities or in other organizations.
5. Land holdings on irrigated land is 85% or more of the statutory ceiling area.
6. Parents income is more than ` 6 Lakhs per year or Government of India directives applicable at the time of counseling.

ANNEXURE-VI

EXAMINATION CITY CENTRES AND NODAL OFFICERS' CONTACT ADDRESSES

Examination City Centre (Code No.)	Name of Examination City Centre	Contact Phone No. of Nodal Officer	Address of Nodal Officers
01	Anand	02692-271602	Director & Project Co-ordinator, ICAR-Directorate of Medicinal & Aromatic Plants Research, Boriavi-387310, Anand, Gujarat
02	Bengaluru	080-28466353	ICAR-Indian Institute of Horticultural Research, Hessaraghatta Lake, Bangalore-560 089, Karnataka
04	Bhubaneswar	0674-2300060	Director, ICAR-Water Technology Centre for Eastern Region, Chandrasekharapur, Bhubaneswar-751 023, Odisha.
06	Bikaner	0151-2250147	Director, ICAR-Central Institute for Arid Horticulture, 10th Mile Stone, SriGanganagar Highway, Beechwal Industrial, Bikaner-334 006, Rajasthan.
07	Chennai	044-24610565	Director, ICAR-Central Institute of Brackish Water Aquaculture, (CIBA), No. 75, Santhome High Road, R.A. Puram, Chennai-600 028, TN
08	Cochin	0484-2394867	Director, Central Marine Fisheries Research Institute, Ernakulam North, Cochin-682 018, Kerala
09	Coimbatore	0442-2472986	Director, ICAR-Sugarcane Breeding Institute, Coimbatore-641 007, TN
10	Delhi	011-25843382	In-charge (PVC) & Principal Scientist, Indian Agricultural Research Institute, Pusa, New Delhi-110 012
11	Dharwad	0836-2214210	Dean (Agri.), University of Agricultural Sciences, Dharwad-580005, Karnataka.
12	Gangtok	03592-231030	Joint Director, ICAR Research Complex to NEH Region, Tadong, Gangtok-737 102, Sikkim
13	Guwahati	0361-2337700	Dean, Faculty of Veterinary Sciences, Assam Agricultural University, P.O. Box – 12, Khanapara, Guwahati - 781 022, Assam
14	Hisar	01662-275787	Director, ICAR-National Research Centre on Equines, Hisar-125 001, Haryana
15	Hyderabad	040 -24015913, 24581555	Chief Admn. Officer , ICAR-National Academy of Agricultural Research Management, Rajendranagar, Hyderabad-500 030, Telangana
16	Imphal	0385-241644	Registrar, Central Agricultural University, Imphal, Manipur
17	Jaipur	0141-2550229	Director, ICAR-Rajasthan Agricultural Research Institute, Durgapura, Jaipur-302018, Rajasthan
18	Indore	0731-2476188	Director, ICAR-National Research Centre for Soybean, Khandwa Road, Indore-452 017, Madhya Pradesh
19	Jabalpur	0761-2353934	Director, ICAR-National Research Centre for Weed Science, Adhartal, Jabalpur-482 004
20	Jammu	0191-2262012	Registrar, Sher-e-Kashmir University of Agricultural Sciences & Technology of Jammu, Chatha, Jammu-180009 (J&K)
21	Karnal	0184-2252800	Director, ICAR-NDRI, Karnal-132001, Haryana
22	Kolkata	033- 24212115	Director, ICAR- NIRJAFT, 12 Regent Park, Kolkata-700 040, West Bengal
23	Kota	0744-2462642	Pr. Scientist & Head, ICAR-Central Soil & Water Conservation Research and Training Institute Research Centre, Dadwara, Kota-324 002, Rajasthan
24	Lucknow	0522-2480726	Director, ICAR-Indian Institute of Sugarcane Research, Lucknow-226 002, UP
25	Ludhiana	0161-2308669	Director, ICAR-Central Institute of Post Harvest Engg. & Technology, P.O. PAU Campus, Ludhiana-141 004, Punjab
26	Mannuthy	0487-2370344	Dean, College of Veterinary Sciences, KAU, Mannuthy, Distt. Thrissur-680651, Kerala
27	Mohanpur	033-25878338	Dean, Faculty of Agriculture, BCKV, Mohanpur, P.O. KrishiVishwaVidyalaya, Distt. Nadia-741252, WB

29	Nagpur	07103-275536	Director, ICAR-Central Institute for Cotton Research, Nagpur-440 010. Maharashtra
30	Palampur	01894-230408	Dean, PGS, CSKHPKV, Palampur-176062, Himachal Pradesh
31	Pantnagar	05944-233407	Co-ordination of Admission, GBPUA&T, Pantnagar, Distt. Udham Singh Nagar-263145. Uttarakhand
32	Patna	0612- 2228882	Head, Division of Crop Research, ICAR Research Complex for Eastern Region, ICAR Patna, P.O. Bihar Veterinary College, Patna- 800 014. Bihar
33	Port Blair	03192-250436	Director, Central Island Agricultural Research Institute, Post Box No. 181, Port Blair – 744 101 (Andaman & Nicobar Island)
34	Pune	020-25538489	Associate Dean, College of Agriculture, Shivajinagar, Pune-411005, (Maharashtra)
35	Pusa (Bihar)	06274-240239	Registrar, Rajendra Agricultural University, Pusa (Samastipur)-848125. Bihar
36	Raipur	0771-2970217	Dean, College of Agriculture, IGKV, Raipur-49-2006, Chhattisgarh
37	Ranchi	0651-2261156	Director, ICAR-Indian Institute of Natural Resins & Gums, Namkum, Ranchi-834 010. Jharkhand.
38	Shillong	0364-2570649	Principal Scientist & Head, ICAR Research Complex for NEH Region, Umroi Road, Umiam-793103. Meghalaya
39	Solan	01792-252344	Registrar, Dr. YSPUH&F, Nauni, Solan-173230, Himachal Pradesh
40	Srinagar (Kashmir)	0194-2305044	Director, ICAR-Central Institute of Temperate Horticulture, Old Air Field, Rangreth, Srinagar-190 007, J&K
41	Tirupati	0877-2249787	Dean, Faculty of Veterinary Science, Sri Venkateswara Veterinary University, Dr. Y.S.R. Bhavan, Tirupati-517 502, AP
42	Thiruvananthapuram	0471-2598431	Principal Scientist & HOD, ICAR-Central Tuber Crops Research Institute, Sreekrishna, Thiruvananthapuram – 695 017, Kerala
43	Udaipur	0294-2418976	Dean, Rajasthan College of Agriculture, Udaipur-313001, Rajasthan
44	Varanasi	0542-2635541	Director, ICAR-Indian Institute of Vegetable Research, P.B. No. – 1, P.O. Jakhni, Shahanshapur, Varanasi – 221 305, U.P.
45	Mathura	0565-2471706	Controller of Examination, UP PanditDeenDayalUpadhayaPashuChikitsaVigyanVishwaVidyalaya aEvam Go AnusandhanSansthan, Mathura-281001, UP
46	Bareilly	0581-2300096	Controller of Examination, ICAR-Indian Veterinary Research Institute, Izatnagar, Bareilly-243122, UP
47	Jodhpur	0291-2786584	Director, ICAR-Central Arid Zone Research Institute, Jodhpur-342003, Rajasthan
48	Kozhikode	0495-2731187	Principal Scientist, ICAR-Indian Institute of Spices Research, P.B. No. 1701, Marikunnu (P.O.) Kozhikode-673012, Kerala
49	Parbhani	02452-233007	Associate Dean & Principal, College of Agriculture, VNMKV, Parbhani-431402, Maharashtra
50	Jhalawar	07432-241155 07432-242155	Dean, College of Horticulture & Forestry, P.O. Jhalarpattan city, Jhalawar-326 023, Rajasthan
51	Ajmer	0145-2684400 0145-2684413	Director, ICAR National Research Centre on Seed Spices, Tabiji, Ajmer-305206, Rajasthan
52	Bhagalpur	0641-2452614	Registrar, Bihar Agricultural University, Sabour, Bhagalpur-813210, Bihar

NOTE:

1. The exact name/location of Examination venue in the Examination city centre will be notified later along with the Roll Number in accordance with the Application Number and Date of Birth and shall be available on ICAR website www.icar.org.in last week of March 2016 or it can be seen with the above Nodal Officers two days before the date of examination.

2. ICAR may change/shift the examination city center opted by the candidate to another nearby centre, if number of candidates are more at any city center.

DOMICILE STATE CODES

Sl. No.	Name of the State/UT	Code Number
1.	Andaman & Nicobar Islands (U.T.)	01
2.	Andhra Pradesh	02
3.	Arunachal Pradesh	03
4.	Assam	04
5.	Bihar	05
6.	Chandigarh (U.T.)	06
7.	Chhattisgarh	07
8.	Dadra & Nagar Haveli (U.T.)	08
9.	Daman & Diu (U.T.)	09
10.	Delhi (U.T.)	10
11.	Goa	11
12.	Gujarat	12
13.	Haryana	13
14.	Himachal Pradesh	14
15.	Jammu & Kashmir	15
16.	Jharkhand	16
17.	Karnataka	17
18.	Kerala	18
19.	Lakshadweep (U.T.)	19
20.	Madhya Pradesh	20
21.	Maharashtra	21
22.	Manipur	22
23.	Meghalaya	23
24.	Mizoram	24
25.	Nagaland	25
26.	Odisha	26
27.	Puducherry (U.T.)	27
28.	Punjab	28
29.	Rajasthan	29
30.	Sikkim	30
31.	Tamil Nadu	31
32.	Tripura	32
33.	Uttarakhand	33
34.	Uttar Pradesh	34
35.	West Bengal	35
36.	Telangana	36

NUMERIC CODES FOR CLASS XII SCHOOL EDUCATION BOARDS/COUNCIL

S.No.	Education Boards/Council	Code
1.	Andhra Pradesh Board of Intermediate Education	01
2.	Assam Higher Secondary Education Council	02
3.	Bihar Intermediate Education Council	03
4.	Central Board of Secondary Education	04
5.	ChhatisgarhMadhyamikShikshaMandal	05
6.	Council for the Indian School Certificate Examinations	06
7.	Goa Board of Secondary and Higher Secondary Education	07
8.	Gujarat Secondary Education Board	08
9.	Haryana Board of School Education	09
10.	H.P. Board of School Education	10
11.	J&K State Board of School Education	11
12.	Jharkhand Academic Council	12
13.	Karnataka Board of School Education	13
14.	Kerala Board of Public Examinations	14
15.	Madhya Pradesh Board of Secondary Education	15
16.	Maharashtra State Board of Secondary and Higher Secondary Education	16
17.	Manipur Council of Higher Secondary Education	17
18.	Meghalaya Board of Secondary Education	18
19.	Mizoram Board of School Education	19
20.	Nagaland Board of School Education	20
21.	Orissa Council of Higher Secondary Education	21
22.	Punjab School Education Board	22
23.	Rajasthan Board of Secondary Education	23
24.	Tamil Nadu Board of Higher Secondary Education	24
25.	Tripura Board of Secondary Education	25
26.	U.P. Board of High School & Intermediate Education	26
27.	Uttarakhand Board of High School & Intermediate Education	27
28.	West Bengal Council of Higher Secondary Education	28
29.	National Open School	29
30.	Other Boards (Not specified above)	30

Note: In case any particular Board is not recognized or has been derecognized by some University, ICAR will not be responsible for admitting students of that Board in the Universities not willing to admit such candidates.

**UNIVERSITIES (TENTATIVE) FOR ADMISSION IN BACHELOR DEGREE PROGRAMMES IN
AGRICULTURE AND ALLIED SCIENCE SUBJECTS THROUGH
AIEEA-UG-2016, ADDRESSES AND CONTACT NUMBERS**

Sr. No.	Name & Address of University	Tel. No. of Registrar with STD code	Fax No. of Registrar
1.	Acharya N.G. Ranga Agricultural University, Rajendranagar, Hyderabad-500 030 (A. P.)	040-24015 122	040-24018653
2.	Anand Agricultural University, Anand-388 110 (Gujarat)	02692-261310	02692-261310
3.	Assam Agricultural University, Jorhat-785 013 (Assam)	0376-2340 008	0376-2340 001
4.	Bidhan Chandra Krishi, Viswavidyalaya, Mohanpur, Nadia-741 252 (West Bengal)	033-25878 163	03473-222 277
5.	Bihar Agricultural University, Sabour, Distt. Bhagalpur-813210. Bihar.	0641-2452614	0641-2452604
6.	Birsa Agricultural University, Kanke, Ranchi-834 006 (Jharkhand)	0651-2450 832	0651-2450 832
7.	Ch. Sarwan Kumar Himachal Pradesh KrishiVishvaVidyalaya, Palampur-176 062 (H. P.)	01894-230 383	01894-230 511
8.	C.S. Azad University of Agri. & Technology, Kanpur-208 002 (U. P.)	0512-2533 704	0512-2533 808
9.	Ch. Charan Singh Haryana Agricultural University, Hisar-125 004 (Haryana)	01662-234 613	01662-284304
10.	Chhattisgarh KamdhenuVishwavidyalaya, Anjora, Durg-491 001 (C.G.)	0771-2103471	0771-4223614
11.	Dr.BalasahebSawantKonkanKrishiVidyapeeth, Dapoli, Distt. Ratnagiri-415 712 (Maharashtra)	02358-282 065	02358-283065
12.	Dr.PanjabraoDeshmukhKrishiVidyapeeth, Krushinagar, Akola-444 104 (Maharashtra)	0724-2258 372	0724-2258 372
13.	Dr.Yashwant Singh Parmar Univ. of Horticulture & Forestry, Solan, Nauni-173 230 (H. P.)	01792-252 219	01792-252 009
14.	Dr. YSR Horticultural University, Venkataramannagudem, West Godavari-534 101 (A.P.)	07382-633678	07382-633678
15.	G.B. Pant University of Agri. & Technology, Pantnagar, Distt. Udham Singh Nagar-263 145 (Uttarakhand)	05944-233 640	05944-233640
16.	Guru AngadDev Veterinary & Animal Sciences University, Ludhiana-141 004 (Punjab)	0161-2553 343	0161-2553342
17.	Indira Gandhi KrishiVishwavidyalaya, Krishak Nagar, Raipur-492 012 (Chhattisgarh)	0771-2442 537	0771-2442302 0771-2443939
18.	Jawaharlal Nehru KrishiViswaVidyalaya, Adhartal, Jabalpur-482 004 (M. P.)	0761-2681 778	0761-2681 778
19.	Junagadh Agricultural University, Junagadh-362 001 (Gujarat)	0285-2672 346	0285-2672 482
20.	Karnataka Veterinary Animal & Fisheries Sciences University, Bidar. (Karnataka)	08482-245 241	08482-245 360
21.	Kerala Agricultural University, Vellanikkara, Thrissur-680 656 (Kerala)	0487-2438011	0487-2371619

22.	Kerala Veterinary & Animal Sciences University, PookotWayanad -673576 (Kerala)	0487-2373644	0487-2373043
23.	Kerala University of Fisheries & Ocean Studies, Panangad P.O., Kochi - 682506, (Kerala)	0484-2703782	0484-2700337
24.	MaharanaPratap University of Agriculture & Technology, Udaipur-313 001 (Rajasthan)	0294-2471302	0294-2471302
25.	Maharashtra Animal Science & Fishery University, Seminary Hills, Nagpur-440 006 (Maharashtra)	0712-2511784/85	0712-2511282
26.	Mahatma PhuleKrishiVidyapeeth, Rahuri-413 722 (Maharashtra)	02426-243 216	02426-243 216
27.	VasantryaNaikMarathwadaKrishiVidyapeeth, Parbhani-431 402 (Maharashtra)	02452-229 755	02452-229 755
28.	ManyavarShriKanshiramJi University of Agriculture & Technology Banda-210001 (U. P.)	05192-221602	05192-221605
29.	Narendra Deva University of Agri. and Technology, Kumarganj, Faizabad-224 229 (U. P.)	05270-262035	05270-262104
30.	National Dairy Research Institute, Karnal-132 001 (Haryana)	0184-2272392	0184-2272392
31.	Navsari Agricultural University, Eru Char Rasta, Navsari-396 450 (Gujarat)	02637-282 823	02637-283794
32.	Orissa University of Agriculture & Technology, Bhubaneshwar-751 003 (Odisha)	0674-2397424	0674-2397424
33.	Punjab Agricultural University, Ludhiana-141 004 (Punjab)	0161-2400 955	0161-2400 955
34.	Rajendra Agricultural University, Pusa, Samastipur-848 125 (Bihar)	06274-240239	06274-240277
35.	RajmataVijayarajeScindiaKrishiVishwaVidyalaya, Race Course Road, Gwalior-474 002 (M.P.)	0751-2467066	0751-2467066
36.	SardarVallabhBhai Patel Univ. of Agriculture & Technology, Modipuram, Meerut-250 110 (U. P.)	0121-2888502	0121-2888525
37.	Sardarkrushinagar-Dantiwada Agricultural University, Sardarkrushinagar, Distt. Banaskantha-385 506(Gujarat)	02748-278 226	02748-278234
38.	Sher-E-Kashmir University of Agricultural Sciences & Technology, Jammu-180 012 (J&K)	0191-2262012	0191-2262012
39.	Sher-E-Kashmir Univ. of Agril. Sciences & Technology of Kashmir, Shalimar Campus, Srinagar-191 121 (J&K)	0194-2461271	0194-2461271
40.	Sri Venkateswara Veterinary University Tirupati, Chittoor-517 502 (A. P.)	0877-224 8894	0877-2248881
41.	Swami Keshwanand Rajasthan Agricultural University, Bikaner-334 006 (Rajasthan)	0151-2250025	0151-2250025
42.	Tamil Nadu Agricultural University, Coimbatore-641 003 (TN)	0422-6611201	0422-2431821
43.	Tamil Nadu Fisheries University, First Line Beach Road Nagapattinam – 611 001 (Tamil Nadu)	04365-241444	04365–240087
44.	Tamil Nadu Veterinary & Animal Sciences University, Chennai-600 051 (Tamil Nadu)	044-25551 584	044-25551585
45.	University of Agricultural Sciences, Dharwad-580 005 (Karnataka)	0836-2747958	0836-2745276
46.	University of Agricultural Sciences, GKV, Bangalore-560 065 (Karnataka)	080-23330 984	080-23330277

47.	University of Agricultural and Horticultural Sciences, Shimoga (Karnataka)	08182-270705	08182-2777295 08182-279263
48.	University of Agricultural Sciences, Raichur-584102. (Karnataka)	08532-220157	08532-220360
49.	University of Horticultural Sciences, Sector No. 60, Navanagar, Bagalkot-587102. (Karnataka).	08354-201354	08354-235152
50.	Uttarakhand University of Horticulture & Forestry, Bharsar, PauriGarhwal (Uttarakhand)	08476004113	01376-252128
51.	Uttar BangaKrishiViswavidyalaya, PO Pundibari, Dist. Cooch Behar-736 165 (West Bengal)	03582-270 588	03582-270 143
52.	West Bengal University of Animal & Fishery Sciences, 68 KB Sarani, Kolkata-700 037 (West Bengal)	033-25563123	033-270249
53.	Central Agricultural University, PO Box 23, Imphal-795 004 (Manipur)	0385-2415196	0385-2412944
54.	Banaras Hindu University (Institute of Agricultural Sciences)Varanasi-221 005 (UP)	0542-2368 558	0542-2369425
55.	Nagaland University, School of Agricultural Sciences & Rural Development(SASARD), Medziphema-797 106 (Nagaland)	03862-247255	03862-274113
56.	VisvaBharati, (PalliSikshaBhavana), P.O. Srineketan-731 236, Birbhum (W.B.)	03463-261531 03463-264779	03463-261156
57.	Sam Higginbottom Institute of Agriculture, Technology & Sciences (SHIATS) (Deemed-to-be-University), Naini, Allahabad-211 007. (U.P.)	0532-2684281	0532-2684 394
58.	SKN, Agriculture University, Jobner-303329, Distt. Jaipur (Rajasthan)	01425-254022	01425-254022
59	Agriculture University, Kota Borkhera, Baran Road, Post Box Number 20 Kota : 324001 (Rajasthan)	0744-2321205	0744-2321203
60	Agriculture University, Jodhpur-342304 (Rajasthan)	0291-2570710	0291-2570710
61	Rani Lakshmi Bai Central Agricultural University, Near Pahuji Dam, Gwalior Road, Jhansi - 284 003 (UP)	0510-2730666	0510-2730833
62	Prof. Jayashankar Telangana State Agricultural University, Hyderabad-500030 (Telangana)	040-24015226	040-24016688
63	Kamdhenu University, Karmayogibhavan, Block-1, Wing-B1, 4 th Floor, Sector-10-A, Gandhinagar-382010 (Gujarat)	9725001060	07965726668
64	Sri KondaLaxman Telangana State Horticultural University Rajendranagar, Hyderabad - 500030, (Telangana)	040-2401 4301	040-2401 4312
65	Sri P.V. NarsimhaRao Telangana State University for Veterinary, Animal and Fisheries Sciences, Administrative Office Rajendranagar, Hyderabad-500030(Telangana)	040-24002114	040-24002114

INSTRUCTIONS FOR SUBMITTING HARD COPY OF ONLINE APPLICATION FORM

Candidates are advised to note the following instructions carefully while filling and submitting the hard copy of the online Application Form.

- (i) ICAR will not be held responsible for any incorrect information filled in by the applicant in the online application form. Candidates are advised to keep a photocopy of the hard copy of computer generated confirmation page of the application, the Post Office Speed-Post/Registry receipt of posting the hard copy of computer generated confirmation page and **fee payment receipt issued by the bank** for future correspondence, if any.
- (ii) The candidates must ensure that they satisfy the eligibility requirements for appearing in the examination/admission in toto as contained at item 3.0 in the Information Bulletin.
- (iii) It should be carefully noted by the candidate who has been punished at any time in his/her earlier academic career for having taken part in the activities of indiscipline or use of unfair means in any of the examination that he/she shall not be eligible for admission. In case it is detected at any stage that the candidate has secured admission by concealing such fact or through oversight of the admitting university, the admission will be liable to be cancelled with immediate effect.
- (iv) ***In the event of rejection of the application due to late receipt, non-payment/underpayment of the application fee or any other reason(s) specified elsewhere in the Information Bulletin, the application fee paid shall not be refunded.***
- (v) The hard copy of the computer generated confirmation page of online application, complete in all respects, packed and sealed in the envelope and **superscribed as under** should be submitted by Speed/Registered-post or may be deposited personally on any working day between 10.00 A.M. to 5.00 P.M. by the specified last date of receiving of application:

AIEEA-UG-2016

REGISTERED/SPEED- POST

APPLICATION FOR 21st ALL INDIA ENTRANCE EXAMINATION FOR ADMISSION TO UNDERGRADUATE PROGRAMME AND AWARD OF NATIONAL TALENT SCHOLARSHIP IN AGRICULTURE AND ALLIED SUBJECTS FOR THE ACADEMIC SESSION 2016-2017

**ICAR
KAB - II**

To
THE CONTROLLER OF EXAMINATIONS (Agril. Edn.)
EXAMINATION CELL
AGRICULTURAL EDUCATION DIVISION
INDIAN COUNCIL OF AGRICULTURAL RESEARCH, ROOM NO. 216
KRISHI ANUSANDHAN BHAVAN-II, PUSA
NEW DELHI-110012

From:.....
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INSTRUCTIONS FOR CANDIDATES

1. This e-Admit Card allows admission of candidate in the examination hall subject to the condition that if ineligibility is detected at any stage, the candidature will be cancelled.
2. Entry to the Examination Hall without e-Admit Card is not permitted.
3. Particulars in the e-Admit Card must be checked carefully. Errors, if any, must be reported immediately to the Examination Cell, ICAR/Nodal Officer.
4. No paper other than e-Admit Card should be brought inside the examination hall. Cell phones, calculators, tablets or any other electronic device, etc. and any pre-written material are strictly prohibited in the Examination hall.
5. Candidate will not be permitted entry 30 minutes after the actual time of start of examination. No extra time will be given to candidates entering after the actual time of start of examination.
6. Bring a clear colour attested photograph (same as uploaded at the time of filling-up of online Application) to be handed over to the invigilator in case it is demanded. ICAR reserves all rights to verify the identity and genuineness of each candidate by any means that is considered appropriate.
7. Bring at least one black/blue ball-point pen for writing/marketing responses.
8. Do not attempt to give/obtain assistance of any kind. Any improper conduct of the candidate in the examination hall will entail forfeiture of candidature besides other legal action desirable.
9. Impersonation or attempt to impersonate would invite forfeiture of the candidature.
10. Any attempt to remove pages from the Question Booklet or noting down questions will result in forfeiture of candidature.
11. Do not put stray marks on the OMR answer sheet. Change of OMR Answer sheet is not permitted. Please ensure that you do not spoil the answer sheet.
12. To answer questions, darken the corresponding circle/bubble which is most appropriate in your opinion.
13. For each correct response, 4 marks will be awarded. For each incorrect response, 1 mark will be deducted. No marks will be deducted for questions not attempted. More than one answer will be taken as incorrect response and negatively marked.
14. e-Admit Card must be preserved for bringing at the time of counseling or any further identity verification by the admitting University.
15. Failure to comply with these instructions will entail expulsion/cancellation of candidature and may invite further legal action.
16. The city of examination as filled by the candidate in the Online application shall not be changed. ICAR may change/shift the examination city center opted by the candidate to another nearby centre, if number of candidates are more at any city center.

TENTATIVE SCHEDULE FOR COUNSELING/ PERSONAL APPEARANCE AS PER OVERALL MERIT RANK OF QUALIFIED CANDIDATES FOR ADMISSION TO BACHELOR DEGREE COURSES IN AGRICULTURE AND ALLIED SUBJECTS OTHER THAN VETERINARY SCIENCE - AIEEA-UG-2016

Venue

AP SHINDE SYPOSIUM HALL, NASC COMPLEX (ICAR)
DevPrakashShastri (DPS) Marg, (Opp. Todapur), Pusa, New Delhi 110 012

Date of Personal Appearance/Counseling as per overall merit rank		Counseling For STREAM (as per overall merit rank)	9.00 AM to 1.00 PM [#] Overall Merit Rank	2.00 PM to 6.00 PM [#] Overall Merit Rank
25.06.2016	(Saturday)	STREAM-B (Maths Group) (All UPS, PC, ST & SC) and (General + OBC upto 300)ST & SC upto 1-200)and	STREAM-B (Math) (All UPS, PC; (General + OBC 1-300)	STREAM-B (SC&ST 201 to all qualified)
26.06.2016	(Sunday)	STREAM-B (Maths Group) (General + OBC)	STREAM-B 301-575	STREAM-B 576- 875
27.06.2016	(Monday)	STREAM-B (Maths Group) (General + OBC) STREAM-A (Biology/Agri. Group) (UPS/PC/ST)	STREAM-B 876 and onward	STREAM-A (Bio/Agri) (All UPS,PC& ST)
28.06.2016	(Tuesday)	STREAM-A (Biology/Agri. Group) (All SC)	STREAM-A (SC 1-500)	STREAM-A (SC 501 to all qualified)
29.06.2016	(Wednesday)	STREAM-A (General+ OBC)	1- 700	701-1100
30.06.2016	(Thursday)	STREAM-A (General+ OBC)	1101-1500	1501-1800
01.07.2016	(Friday)	STREAM-A (General+ OBC)	1801-2200	2201-2500
04.07.2016	(Monday)	STREAM-A (General+ OBC)	2501-2850	2851-3150
05.07.2016	(Tuesday)	STREAM-A (General+ OBC)	3151-3450	3451-3700
06.07.2016	(Wednesday)	STREAM-A (General+ OBC)	3701-4100	4101-4400
07.07.2016	(Thursday)	STREAM-A (General+ OBC)	4401-4700	4701 and onwards + any left over candidate* who could not attend the counseling on date and scheduled time due to any reasons

or till the counseling is over for the day.

1. **The above Counseling schedule is tentative and is subject to change. Any change in the venue/schedule of counseling will be placed on ICAR website. The SC/ST candidates who do not wish to take admission in their respective reserve category may opt for counseling with General + OBC category.**
2. Candidates are advised to book their journey tickets to New Delhi for counseling accordingly as soon as the result is declared, and if they are declared qualified to be called for counseling.
3. ***Such candidates will be allotted the seat and the university against any unfilled seat if available. Their counseling will be undertaken only after the counseling is over for all the candidates who have reported on scheduled date and time. Mere reporting for the counseling on this date does not necessarily guarantee the admission.**
4. **In case the seats are exhausted before all the candidates called for personal appearance are covered, the allocation will be stopped and the Council will not be responsible for the non-availability of seats and non-allotment to the rest of the candidates on this account.**
5. **Candidate will have to deposit part admission fee of ₹2,000/- (Rupees Two Thousand only) in Cash and also submit the original certificates to the Registrar of the University as soon as the seat is allocated on the day of Counseling.** Candidate is advised to take the receipt of the deposits as well as enquire about the date of reporting for registration at the Agricultural University from the Registrar. The balance amount of fee would have to be deposited by the candidate to the University on the date of registration as prescribed by the University for the purpose. Failure to deposit part admission fee and certificates to the allocated University will forfeit his/her claim for admission. Reserved category candidates must produce the required certificates in original and in the prescribed format. **Any temporary or permanent withdrawal of original certificates will be governed as per the concerned University rules. ICAR has no objection if certificates are returned to the candidate after verification.** In case of OBC candidates availing the benefits of reservation in Central Educational Institutions/Universities, the candidate will also be required to produce a Central OBC certificate (**Annexure-V**) issued by the competent authority and satisfy following criteria:
 - Sub-caste must tally with the Central list of OBC.
 - Candidate should not belong to creamy layer.

The proof of non-creamy layer shall be verified by the University authority before their admission (Original certificate has to be produced). Therefore, candidates while coming for counseling need to bring with them all the above required documents in original as well as photocopies thereof along with part fee in cash and call letter for counseling issued by the ICAR. The counseling of OBC candidates will be done along with the candidates of general category at their overall merit rank for reserved seats as applicable at the time of counseling in the Central Educational Institutions/Universities.
6. **Candidate should note that after allotment of the seat, no refund of part fee will be made in case he/she withdraws admission for any reason.**
7. The reporting time for the candidates will be 30 minutes before **(8.30 A.M./ 1.30 P.M.)** the specified time of counseling. In case of late reporting by the candidates for counseling due to any reason, he/ she will lose claim of admission due at his/ her rank. However, such candidate may be considered for admission against left out seats at the time of reporting. No claim or compensation for problems (if any) encountered or cost incurred in attending the counseling will be entertained by the ICAR/ Universities. While reporting for the counseling candidate must ensure that all the eligibility conditions laid down in the Information Bulletin are fulfilled including the age limit, final result in hand, percentage of marks, relevant certificates etc. ICAR/ University will not be held responsible for denial of admission to non-eligible candidates.
8. Candidates are advised to remain in touch with ICAR website for any change in schedule/notices/circulars etc. In case the letters are issued and not received by the candidates due to postal delay or any other reasons in time, ICAR shall not be responsible for it. Candidates should download counseling letter from the ICAR website.

NOTE

The candidates please note that 15% ICAR quota seats through ICAR's Entrance Examination (AIEEA-UG) in Bachelor degree programmes will not be filled-up for non-accredited colleges of Agricultural Universities (AUs) w.e.f. Academic Session 2016-17. The final status of accreditation of the colleges is expected to be known by the end of April, 2016 and the seat position in the accredited colleges of the concerned AUs are likely to be known by the 3rd week of May, 2016. The seat positions notified in this Information Bulletin are likely to change on this account and the dates for counseling indicated above are also likely to be revised. The candidates are, therefore, advised to remain in constant touch with the ICAR website for any change in counseling schedule/notices/circulars, etc.

**ALL INDIA ENTRANCE EXAMINATION FOR ADMISSION TO
BACHELOR DEGREE IN AGRICULTURE & ALLIED SCIENCES**

SIDE - I

OMR ANSWER SHEET

1. प्राप्ताशी का नाम Name of Candidate											
2. पिता का नाम Father's Name											
3. अनुक्रमांक Roll Number											
4. परीक्षा केन्द्र का शहर (शहर का कोड लिखें) Exam City Centre (Write Centre Code)											
5. प्रश्न पुस्तिका संख्या Question Booklet Number							6. परीक्षा की तिथि Date of Examination				

भाग-I भरने के लिए अनुदेश INSTRUCTIONS FOR FILLING SIDE - I

- कम संख्या 1 से 5 में समस्त सूचना काले या नीले बॉल पेन से स्पष्ट अक्षरों में लिखें जिसमें अपने आवेदन पत्र में दत्त अपना नाम लिखा गया है और प्रश्न पुस्तिका में दत्त नाम सहित समस्त सूचना दी जाए।
Write all information in capital letters with a black or blue ball-point pen under Serial No. 1 to 5 including your name as it appears in the application form.
- कम संख्या 7 में अपने हस्ताक्षर बॉल पेन से करें। यदि आपने हस्ताक्षर नहीं किए हैं तो उत्तर पत्रक अस्वीकृत कर दिया जाएगा। आपके हस्ताक्षर आवेदन पत्र पर किए गए हस्ताक्षरों से मिलने चाहिए।
Put your signature in serial number 7 with a ball point pen only. If it is not signed, Answer Sheet would be rejected. Signature must tally with signature on the Application Form.

भाग-II उत्तर भरने के लिए अनुदेश INSTRUCTIONS FOR MARKING ANSWERS SIDE - II

- यह उत्तर पत्रक कंप्यूटरीकृत मूल्यांकन के लिए तैयार किया गया है। अतः यदि आप नीचे दिए गए अनुदेशों का पालन नहीं करते हैं तो कंप्यूटर द्वारा मूल्यांकन करना कठिन हो जाएगा। परीक्षानिर्वाहक प्राप्ताशी को हानि होगी अर्थात् अनुदेशों का पालन न करने के परिणामस्वरूप उत्तरपत्रिका पर प्राप्ताशी का होना।
This answer sheet is designed for computerized evaluation. Therefore, if you do not follow the instructions as given below, it may render evaluation by the computer difficult. Any resultant loss to the candidate on above account, i.e. not following the instructions, shall be the responsibility of the candidate.
- भाग -II पर कम संख्या 9-15 पर सूचना केवल काले/नीले बॉल पेन से भरनी है। वृत्तों को पूरा-पूरा और समस्य रंगें।
Information at Serial No. 9-15 on Side-II should be filled with black/blue ball-point pen only. Darken the circle completely and uniformly.
- प्रत्येक प्रश्न के लिए केवल एक वही वृत्त ही रंगें जिससे आप सही उत्तर मानते हैं और, जिस कि नीचे उदाहरण में दिखाया गया है। यदि आप एक से अधिक वृत्त रंगते हैं तो आपका उत्तर गलत माना जाएगा।
Darken only ONE circle for each answer which is correct in your opinion, as shown in the example below. If you darken more than one circle, your answer will be treated as wrong.

Correct
● ○ ○ ○
- बॉल पेन से एक बार केवल एक उत्तर करने के पश्चात प्राप्ताशी को उसे बदलने की छूट नहीं होगी क्योंकि यदि एक से अधिक उत्तर दिए जाते हैं तो मूल्यांकन के दौरान कंप्यूटर उत्तर प्रश्न के उत्तर को मान्य नहीं करेगा।
The candidate will not be allowed to change the answer once marked with Ball pen as the computer processing will automatically discredit marking of more than one answers to a question during evaluation.
- वृत्त केवल निर्धारित स्थान पर ही रंगें। कृपया उत्तर पत्रक पर कोई अन्य दिखाई पड़ने वाला निशान न बनाएं, अन्यथा उत्तर गलत माना जाएगा और इसके लिए निर्धारित अंक कंप्यूटर द्वारा काटे जाएंगे।
Darken the CIRCLE only in the space provided. Please do not make any visible stray mark in the answer sheet, otherwise the answer will be treated as wrong and invite negative markings by the computer.
- कोई भी रफ कार्य या परीक्षण इस ओ.एम.आर उत्तर पत्रक पर नहीं किया जाना चाहिए। इस कार्य के लिए आपके प्रश्न पुस्तिका में अलग से दिए गए पृष्ठों का उपयोग करें।
Rough work should not be done on this OMR answer sheet. Use your Question booklet rough pages provided for doing the rough work.

7. प्राप्ताशी के हस्ताक्षर
SIGNATURE OF THE CANDIDATE

8. सभी प्रविष्टियाँ सत्यापित (All entries verified)

निरीक्षक के हस्ताक्षर
SIGNATURE OF THE INVIGILATOR

SIDE - II

OMR SHEET NO.



141350

PHYSICS				CHEMISTRY				BIOLOGY / AGRICULTURE / MATHS			
Q.No.	Answer	Q.No.	Answer	Q.No.	Answer	Q.No.	Answer	Q.No.	Answer	Q.No.	Answer
001	A B C D	031	A B C D	061	A B C D	091	A B C D	121	A B C D	151	A B C D
002	A B C D	032	A B C D	062	A B C D	092	A B C D	122	A B C D	152	A B C D
003	A B C D	033	A B C D	063	A B C D	093	A B C D	123	A B C D	153	A B C D
004	A B C D	034	A B C D	064	A B C D	094	A B C D	124	A B C D	154	A B C D
005	A B C D	035	A B C D	065	A B C D	095	A B C D	125	A B C D	155	A B C D
006	A B C D	036	A B C D	066	A B C D	096	A B C D	126	A B C D	156	A B C D
007	A B C D	037	A B C D	067	A B C D	097	A B C D	127	A B C D	157	A B C D
008	A B C D	038	A B C D	068	A B C D	098	A B C D	128	A B C D	158	A B C D
009	A B C D	039	A B C D	069	A B C D	099	A B C D	129	A B C D	159	A B C D
010	A B C D	040	A B C D	070	A B C D	100	A B C D	130	A B C D	160	A B C D
011	A B C D	041	A B C D	071	A B C D	101	A B C D	131	A B C D	161	A B C D
012	A B C D	042	A B C D	072	A B C D	102	A B C D	132	A B C D	162	A B C D
013	A B C D	043	A B C D	073	A B C D	103	A B C D	133	A B C D	163	A B C D
014	A B C D	044	A B C D	074	A B C D	104	A B C D	134	A B C D	164	A B C D
015	A B C D	045	A B C D	075	A B C D	105	A B C D	135	A B C D	165	A B C D
016	A B C D	046	A B C D	076	A B C D	106	A B C D	136	A B C D	166	A B C D
017	A B C D	047	A B C D	077	A B C D	107	A B C D	137	A B C D	167	A B C D
018	A B C D	048	A B C D	078	A B C D	108	A B C D	138	A B C D	168	A B C D
019	A B C D	049	A B C D	079	A B C D	109	A B C D	139	A B C D	169	A B C D
020	A B C D	050	A B C D	080	A B C D	110	A B C D	140	A B C D	170	A B C D
021	A B C D	051	A B C D	081	A B C D	111	A B C D	141	A B C D	171	A B C D
022	A B C D	052	A B C D	082	A B C D	112	A B C D	142	A B C D	172	A B C D
023	A B C D	053	A B C D	083	A B C D	113	A B C D	143	A B C D	173	A B C D
024	A B C D	054	A B C D	084	A B C D	114	A B C D	144	A B C D	174	A B C D
025	A B C D	055	A B C D	085	A B C D	115	A B C D	145	A B C D	175	A B C D
026	A B C D	056	A B C D	086	A B C D	116	A B C D	146	A B C D	176	A B C D
027	A B C D	057	A B C D	087	A B C D	117	A B C D	147	A B C D	177	A B C D
028	A B C D	058	A B C D	088	A B C D	118	A B C D	148	A B C D	178	A B C D
029	A B C D	059	A B C D	089	A B C D	119	A B C D	149	A B C D	179	A B C D
030	A B C D	060	A B C D	090	A B C D	120	A B C D	150	A B C D	180	A B C D

INDIAN COUNCIL OF AGRICULTURAL RESEARCH
KRISHI ANUSANDHAN BHAWAN-II, PUSA, NEW DELHI 110 012
COUNSELING PROFORMA FOR U.G. ADMISSION 2016-17

Roll No. of the Candidate:

Overall Merit Rank:

STREAM: "A" BIOLOGY/ AGRICULTURE "B" MATHEMATICS /

1. Name of the Candidate (IN BLOCK LETTERS):

2. Father's Name:

3. Sex: M/F/Thirdgender..... Date of Birth:..... 5. Nationality:
 (16 years of age as on 31.08.2016)

6. Address for Correspondence:

7. Permanent address:

8. Phone/Mob No..... 9. State of Domicile (as in the Application Form):

10. Subject, University choice where admission is requested (in order of preference):

Subjects: 1..... 2..... 3..... 4.....

University: 1..... 2..... 3..... 4..... 5.....

11. Category: Gen./ SC/ ST/ PC/ UPS/OBC (Attach certificate)

12. Year of Passing 10+2 Exam..... Name of the Board of Examination of 10+2:

13. Details of Subjects with marks obtained in qualifying examination (10+2):

Subject	Maximum Marks	Marks Obtained	Percentage of Marks
Physics			
Chemistry			
Mathematics			
Biology			
Agriculture/Home Science			
English			
Hindi			

% of MARKS in AGGREGATE%

Self attested photocopies of Documents Attached:

(1) High School Certificate/ Marks sheet showing Date of Birth: Yes
 (2) Marks sheet and certificate of 10+2 Yes
 (3) Transfer Certificate/ School Leaving Certificate Yes
 (4) Character Certificate from the School last attended Yes
 (5) Three Passport size colour photograph with name and date Yes
 (6) SC/ST/PC/ UPS domicile certificate/Central OBC Certificate Yes

(SIGNATURE OF CHECKING OFFICER)

(SIGNATURE OF THE CANDIDATE / REPRESENTATIVE)

Documents : ☐ In Order ☐ Not in order

(SIGNATURE OF CHECKING OFFICER)

FOR OFFICE USE ONLY

Admission granted : YES / NO

University Allotted:

Subject / Course Allotted :

Category under which admitted:

(SIGNATURE OF THE CHAIRMAN, COUNSELING COMMITTEE)

Part Admission Fee deposited Rs.2,000/- Dated: Remarks (if any):.....

(SIGNATURE OF THE UNIVERSITY OFFICIAL)

On the basis of the ICAR counseling and availability of seat/ University at my merit rank, I

Self/ Authorized Representative accept the above allotment of degree program and the University.

Date:

Place:

SIGNATURE OF THE CANDIDATE / REPRESENTATIVE

Entrance Exam (AIEEA-UG-2016) Fee Deposit Challan	
(Bank's Copy)	
ICAR, Education Division, KAB-II, Pusa, New Delhi	
Academic Year 2016-17	
State Bank of Bikaner and Jaipur, Payable at all Branches of State Bank of Bikaner and Jaipur, in India (During 15.04.2016 to 30.04.2016)	
Name of the Branch.....	
Branch Code No.....	
Beneficiary Name :Secretary,ICAR Education Division, Revolving Fund.	
Beneficiary's Bank Account No.: 61294161762	
Beneficiary's Branch: KrishiBhawan, New Delhi, MICR-110003033, IFSC Code: SBBJ0010936	
Exam Fee Paid: (✓ appropriate category)	
Under-graduate (UG) Programme:	
<input type="checkbox"/> Gen/OBC/ UPS** Category	₹ 500.00*
<input type="checkbox"/> SC/ ST/ PC Category	₹ 250.00*
Bank Commission:	As applicable
Total Fee Paid:	
Transaction ID No.:_____ (to be filled by the Branch carefully)	
Particulars of Candidate	
Online Application Form No.:_____	
Name: _____	
Father's Name: _____	
Address: _____	

Phone/ Mobile No.:_____	
Depositor's Signature:_____	
Cashier Signature: _____	
(With Bank Stamp)	
Care: Application Form No. to be filled in correctly in the system by the branch official "Registration-ID/Ref-No."	
*Strike off which ever is not applicable. ** Under Privileged State namely, (i) Andaman & Nicobar Island, (ii) Arunachal Pradesh, (iii) Dadra and Nagar Haveli, (iv) Daman & Diu, (v) Goa, (vi) Lakshadweep, (vii) Manipur, (viii) Meghalaya, (ix) Mizoram, (x) Nagaland, (xi) Sikkim and (xii) Tripura	

Entrance Exam (AIEEA-UG-2016) Fee Deposit Challan	
(Candidate's Copy)	
ICAR, Education Division, KAB-II, Pusa, New Delhi	
Academic Year 2016-17	
State Bank of Bikaner and Jaipur, Payable at all Branches of State Bank of Bikaner and Jaipur in India (During 15.04.2016 to 30.04.2016)	
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Exam Fee Paid: (✓ appropriate category)	
Under-graduate (UG) Programme:	
<input type="checkbox"/> Gen/OBC/ UPS** Category	₹ 500.00*
<input type="checkbox"/> SC/ ST/ PC Category	₹ 250.00*
Bank Commission:	As applicable
Total Fee Paid:	
Transaction ID No.:_____ (to be filled by the Branch carefully)	
Particulars of Candidate	
OnlineApplication Form No.:_____	
Name: _____	
Father's Name: _____	
Address: _____	

Phone/ Mobile No.:_____	
Depositor's Signature:_____	
Cashier Signature: _____	
(With Bank Stamp)	
Important: Candidate must ensure that the Transaction-ID is filled in properly by the Bank	
*Strike off which ever is not applicable. ** Under Privileged State namely, (i) Andaman & Nicobar Island, (ii) Arunachal Pradesh, (iii) Dadra and Nagar Haveli, (iv) Daman & Diu, (v) Goa, (vi) Lakshadweep, (vii) Manipur, (viii) Meghalaya, (ix) Mizoram, (x) Nagaland, (xi) Sikkim and (xii) Tripura	

Entrance Exam (AIEEA-UG-2016) Fee Deposit Challan	
(ICAR's Copy)	
ICAR, Education Division, KAB-II, Pusa, New Delhi	
Academic Year 2016-17	
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Exam Fee Paid: (✓ appropriate category)	
Under-graduate (UG) Programme:	
<input type="checkbox"/> Gen/OBC/ UPS** Category	₹ 500.00*
<input type="checkbox"/> SC/ ST/ PC Category	₹ 250.00*
Bank Commission:	As applicable
Total Fee Paid:	
Transaction ID No.:_____ (to be filled by the Branch carefully)	
Particulars of Candidate	
Online Application Form No.:_____	
Name: _____	
Father's Name: _____	
Address: _____	

Phone/ Mobile No.:_____	
Depositor's Signature:_____	
Cashier Signature: _____	
(With Bank Stamp)	
Important: Candidate must submit this slip with application form.	
*Strike off which ever is not applicable. ** Under Privileged State namely, (i) Andaman & Nicobar Island, (ii) Arunachal Pradesh, (iii) Dadra and Nagar Haveli, (iv) Daman & Diu, (v) Goa, (vi) Lakshadweep, (vii) Manipur, (viii) Meghalaya, (ix) Mizoram, (x) Nagaland, (xi) Sikkim and (xii) Tripura	

