

Information Bulletin

WITH APPLICATION FORM

For

BACHELOR DEGREE PROGRAMMES

ICAR's

16th ALL INDIA ENTRANCE EXAMINATION FOR ADMISSION (AIEEA-UG-2011) 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 100% SEATS IN DAIRY TECHNOLOGY AT NDRI KARNAL FOR ACADEMIC SESSION

2011-2012

(AIEEA-UG-2011)



Examination Cell
Education Division
Indian Council of Agricultural Research
Krishi Anusandhan Bhavan II, Pusa
New Delhi-110 012

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

Deputy Director General (Education),
Indian Council of Agricultural Research
Krishi Anusandhan Bhavan-II
Pusa, New Delhi 110 012.

Assistant Director General (HRD)/
Controller of Examinations (COE, Edn)
Education Division
Indian Council of Agricultural Research
Krishi Anusandhan Bhavan-II
Pusa, New Delhi 110 012
Tel. No.: 011-25843392, 25840746
Fax No.: 011-25840851, 25843932

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

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

SALE OF INFORMATION BULLETIN

- (a) **On Cash Payment** of ₹ 400/- for General, OBC & UPS Categories and ₹ 200/- for SC, ST and PH Categories with additional ₹ 25/- per Information Bulletin as handling charges plus service tax, as applicable, at Sale Counters of **Agricultural Universities, and Syndicate Bank** (35 branches).
: 27.12.2010 to 15.02.2011
- (b) **Depositing Bank Draft** of ₹ 400/- for General, OBC & UPS Categories and ₹ 200/- for SC, ST and PH Categories **personally at the sale counter of ICAR Exam Cell, Education Division, Room No. 216, KAB-II, Pusa, New Delhi; NDRI, Karnal; NAARM, Hyderabad; CARI, Port Blair; CIFE, Mumbai and IVRI Izatnagar.**
: 27.12.2010 to 15.02.2011
- (c) **By Post** from the office of Controller of Exams, **Education Division, ICAR, Room No. 216, KAB-II, Pusa, New Delhi-110012** by sending a **written request along with DD** of ₹ 450/- for General, OBC & UPS Categories and ₹ 250/- for SC, ST and PH Categories (including postal and handling charges) and an unstamped self-addressed 30 cm x 25 cm envelope.
: 27.12.2010 to 10.02.2011
- (d) **Downloading Application Form & Information Bulletin** from ICAR website (<http://www.icar.org.in>) for submission to office of Controller of Exams, Education Division, ICAR, Room No. 216, KAB-II, Pusa, New Delhi-110012 as hard copy on good quality bond paper along with a DD of ₹ 400/- for General, OBC & UPS Categories and ₹ 200/- for SC, ST and PH Categories.
: 27.12.2010 to 15.02.2011

Demand Draft, wherever applicable, should be drawn in favour of "ICAR Unit – Education Division, New Delhi" payable at New Delhi.

IMPORTANT DATES

- (i) **Last date** for receipt of application : 15 February 2011
- (ii) **Last date** for receipt of applications **from certain remote areas** namely, Assam, Meghalaya, Arunachal Pradesh, Mizoram, Manipur, Nagaland, Tripura, Sikkim, Jammu & Kashmir, Lahaul & Spiti district and Pangri Sub-division of Chamba district of Himachal Pradesh, Andaman & Nicobar Islands and Lakshadweep : 22 February 2011
- (iii) Admit Card or Roll No. query, if any.
(Please note that no separate Admit Card shall be issued.) : Around Third Week of March 2011
- (iv) **Date and Time of Examination** : Saturday, April 16, 2011
(10.00 AM to 12.30 PM)
- (v) Declaration of Result : Around Third Week of May 2011
- (vi) Schedule for Counseling/Personal Appearance (Tentative) : 15.06.2011 - 23.06.2011

All Announcements including, admit card information, declaration of result, calling for counseling, general notices, etc. will be available on Internet at the ICAR website at <http://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 City of Examination for Centre and Roll No. only.

NOTE: May contact the COE on any working day on telephone (011-25843392, 25840746) between 10.00 A.M. to 5.00 P.M.

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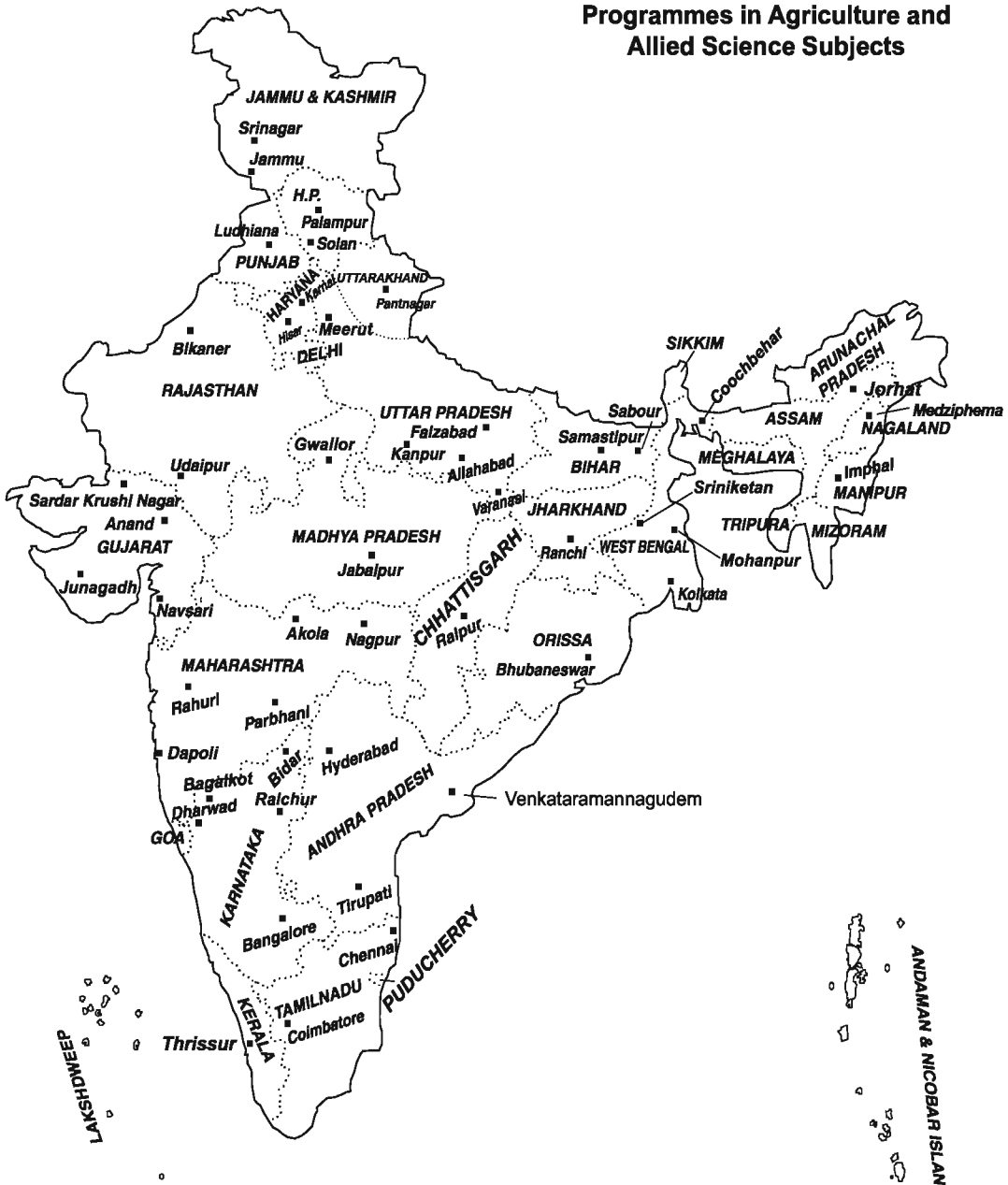
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OTHER ENCLOSURES WITH THIS BULLETIN

- (i) Application Form with Admit Card
- (ii) Acknowledgement Card with Blank Envelope

INDIA

Location of Universities
for admission in U.G. Degree
Programmes in Agriculture and
Allied Science Subjects



(Map not to scale)

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 16% to the Gross Domestic Product. Trained human resource has been the key factor behind the Green 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 56 Agricultural Universities (AUs) comprising of 46 State Agricultural and Veterinary Universities, 1 Central Agricultural University, Imphal, 4 ICAR-DUs (IARI, IVRI, NDRI and CIFE), 4 Central Universities having agricultural faculty (BHU, AMU, Viswa Bharati 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 every year in agricultural sciences comprising about 15,000 graduates, 11,000 Masters and about 2500 Ph.D.s annually. The Undergraduate degree in 11 subjects of agriculture and allied sciences and master's degree in about 91 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.

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 on agricultural farms, Rural Awareness Work Experience and Internship programmes 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. The educational satellite named EDUSAT is to be utilized for agricultural education through ISRO and IGNOU by providing study centres with two-way audio and video facilities for interactive learning in each University. 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.

Sources for Availability of Information Bulletin with Application Form

A. The forms can be obtained by cash payment from Registrars of Agricultural Universities or from the specified branches of Syndicate Bank and also from five ICAR Institutions by payment through Bank Draft from 27 December 2010 to 15 February 2011.

B. FROM SYNDICATE BANK BRANCHES: (On Payment by Cash)

AIEEA-UG-2011

Andhra Pradesh: (1) D.No. 40-3-2, M.G. Road, Labbipet, Vijayawada. (2) 5-9-246/1, Opp. Grammar School, Abid Road, Hyderabad. **Assam:** (3) 135, Motilal Nehru Road, Pan Bazar, Distt. Kamrup, Guwahati. **Bihar:** (4) 23, Choti Kalyani Road, Near Kalyani Post office, Muzaffarpur, (5) Capital Tower, Block-B, Fraser Road, Patna, **Chandigarh:** (6) Opp. Mount Carmel School, Sector-47, Chandigarh, **Chhattisgarh:** (7) Maurya Picture Complex, G.E. Road, Bilai. (8) 113, Smt. Surjadevi Shukla Camp, Near Deshbandhu School, Station Road, Raipur. **Gujarat:** (9) Samrudhi, G.H.-4, Sector-16, Gandhinagar. **J&K:** (10) Sant Palace, Purani Mandi, Jammu. (11) No. 1, Exchange Road, Srinagar. **Jharkhand:** (12) C-1, City Centre, Sector 4, Bokaro Steel City. **Karnataka:** (13) Karnataka University Campus, Pavate Nagar, Dharwad, (14) 66, 9th Main Road, 3rd Block, Jaynagar, Bengaluru. **Kerala:** (15) I-Floor, M.S. City Centre, Bank Road, Kasaragod. **Madhya Pradesh:** (16) 102/103, Kalachand Mansion, Berasia Road, Bhopal. (17) Moti Market, Jayendraganj, Lashkar, Gwalior. (18) 31-1, Nanda Nagar, Main Road, Indore. **Maharashtra:** (19) Prakash Apartments, Plot No. CIS-2410, SVP Road, Borivli West, Mumbai. **Orissa:** (20) Ward No. 14, Nandi Sahi, P.O.- Choudhary Bazar, Cuttack. **Puducherry:** (21) Kannan Building, Maidan Road, Mahe. **Punjab:** (22) Near Hotel Sky Lark, Model Town Road, Jalandhar City. **Rajasthan:** (23) Jaipur Towers, MI Road, Jaipur, (24) 68, Old Dhan Mandi, Sarovar Cinema Road, Kota. **Tamil Nadu:** (25) Door No. 24, 1st Floor, Sardar Patel Road, Adyar, Chennai. **Uttarakhand:** (26) 45, Rajpur Road, Dehradun, (27) Shakti Motors Complex, Kaladhungi Road, Mukahani, Haldwani. **Uttar Pradesh:** (28) Garib Manjil, Abad Nagar, Dodhpur Civil Lines, Aligarh, (29) 167-A, Civil Lines, Bareilly, (30) B-16-17, Sector-18, Noida, Gautam Budh Nagar, (31) 177/035 Zamir Mansion, Dr. B.N. Road, Opp. Gulmarg Hotel, Aminabad, Lucknow, (32) Chandrasekhar Azad market, 1st Floor, Sardar Patel Marg, Civil Lines, Allahabad, (33) B-I-B, Officers Colony, Sarvodaya Nagar, Kanpur. **West Bengal:** (34) 1, Parcus Road, G.T. Road Cross, 1 WG, Burdwan, (35) 42, G.T. Road (South), Howrah.

FROM SYNDICATE BANK BRANCHES: On payment by cash in the following four branches **in Delhi** only:

NEW DELHI (1) 1st Floor, Arunachal Building, 19, Barakhamba Road, (2) Delhi Tamil Sangam Building, Sector 5, R.K. Puram, (3) Institute of Hotel Management, Amar Colony, Near Guru Nanak Market, Lajpat Nagar (4) Pusa Campus Main Branch, IARI, Pusa.

(These branches will not entertain any request for Information Bulletin to be sent by Post)

C. FROM ICAR INSTITUTIONS (By Depositing Bank Draft Only)

Information Bulletin with Application Form can be obtained, in person, by depositing an account payee bank draft of amount mentioned above and from the sale counters at the following **ICAR Institutions:**

- (i) CARI, Port Blair, (ii) CIFE, Mumbai, (iii) IVRI, Izatnagar (iv) NAARM, Rajendranagar, Hyderabad, (v) NDRI, Karnal and (vi) ICAR-Examination Cell (Education Division), Room No. 216, ICAR, KAB-II, Pusa, New Delhi.

NOTE:

Candidates can also obtain Information Bulletin with Application Form by sending a written request (on plain paper) along with an Account Payee Bank draft of the specified amount from **The Controller of Examination (Education) or Download** from ICAR website (<http://www.icar.org.in>).

ICAR'S 16th ALL INDIA ENTRANCE EXAMINATION FOR ADMISSION (AIEEA-UG-2011) TO 15% SEATS (TENTATIVE) IN BACHELOR DEGREE PROGRAMMES AND AWARD OF NATIONAL TALENT SCHOLARSHIPS IN AGRICULTURE & ALLIED SCIENCE SUBJECTS (OTHER THAN VETERINARY SCIENCE) IN AGRICULTURAL UNIVERSITIES AND 100% SEATS IN DAIRY TECHNOLOGY AT NDRI KARNAL FOR ACADEMIC SESSION 2011-12

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 agricultural and allied subjects, other than veterinary sciences at Agricultural Universities on 15% of the University seats every year. For NDRI, Karnal, an ICAR-Deemed-to-be-University, 100% seats are filled 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 16th AIEEA-UG-2011 examination for the academic session 2011-12 will be conducted at 39 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. Candidates qualified for counseling will be considered for allocation of subject and the Agricultural University as per counseling procedure described hereinafter. **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) Forestry, (iv) Fisheries, (v) Home Science, (vi) Sericulture, (vii) Agricultural Engineering, (viii) Dairy Technology, (ix) Food Science, (x) Agricultural Marketing, Banking & Cooperation and (xi)

Biotechnology, 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, Banking & 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 Examination	Code No.	Subjects which the candidate must have passed in 10+2 Examination	Subjects to be attempted in the Entrance Examination	Remarks
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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.) with PC	PCB/PCA	
3. Fisheries	03	PCB/PCMB/ PCA/ Inter (Agri.) with PC	PCB/PCA	
4. Forestry	04	PCB/PCMB	PCB	Medical Fitness Required
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, Banking & 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 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 17 years of age but not more than 23 years as on 31.08.2011 (i.e. must have been born between 01.09.1988 to 01.09.1994) are eligible to apply for the examination. No relaxation of age will be allowed to the candidates except for SC/ST/PH categories where upper age limit would be relaxable to 5 years.

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 an Indian University/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 AUs in States of Chhattisgarh, Madhya Pradesh, Rajasthan, Uttarakhand and Uttar Pradesh only.

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

(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 PH 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 2011-12 are given in **ANNEXURE-II**. Exact seat position would be known only on the counseling date.

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

5.1 SCHEDULED CASTE/ SCHEDULED TRIBE/ PHYSICALLY HANDICAPPED/ 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.
- (ii) Three percent seats are also reserved, **horizontally across the categories** in different subjects, for Physically Handicapped (PH) candidates suffering from low vision, hearing impairment, locomotor 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, BHU, CAU, Viswabharati (PSB) as per Government of India orders 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 University would be reserved, **horizontally across categories** for the candidates of the remote and under privileged States/ UTs 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 where educational facilities in agriculture and allied science subjects do not exist and those who qualify this examination. UPS candidates will have to produce domicile certificate issued by the competent authority at the time of counseling. However, ICAR-JRF(PGS) will not be available on such seats. 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. 1,000/- 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 16 April 2011
- (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 subject 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 shading/darkening the corresponding circle/bubble against the serial number of the question with HB pencil or with black ball-point pen at his/her choice.
- (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**.

7.3 Examination City Centres

- (i) A list of Examination City Centres with numeric and alphabetic codes is given in **ANNEXURE-VI**.
- (ii) Candidate must fill the numeric and alphabetic codes for the Examination City Centre from where he/she opts to appear for the Examination.
- (iii) **Examination City Centre, once opted, shall not be allowed to be changed later on. The Admit Card are to be retained by each candidate and no change is possible. In case of any problem please contact COE on telephone around third week of May 2011.**

7.4 Ensuring Eligibility Requirements are Satisfied:

Candidate must fill in the Application Form with due care and must ensure that he/she fulfills the eligibility requirements for the examination as detailed therein. No certificates are called for, to be attached with the Application at time of submission of Application and the eligibility of the candidate for the examination and admission later on is not checked until the date of counseling/personal appearance of the candidate where the related documents are checked and verified. In case the candidate is found not-eligible at any stage, his/her candidature would be summarily rejected.

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 filling up 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 Admit Card:

The Admit Card, in duplicate, has been provided along with the Application Form. The candidate must **fill all the entries in the Admit Card** except roll number and examination venue, **retain one copy and submit the other copy along with the application.** The roll number allotted to the candidate and the venue of examination would be displayed on the ICAR website at <http://www.icar.org.in> as per Application Serial Number and Date of Birth, from where the candidate is required to note down the details and fill the same in the copy of the Admit Card retained by him/her. This copy of Admit Card must be brought to the Examination Hall for appearing in the examination duly attested by Principal of the School last attended or a Gazetted Officer. **Candidate may note that without the attestation of photo as well as signature of the candidate on both the copies, the admit card will be rejected.** Candidate is advised to preserve this admit card till completion of admission in an 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 Examination City center, two days before the scheduled examination date (contact details of Nodal Officers are at **ANNEXURE-VI**).

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 candidate 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 examination. In the event of tie again, a candidate, higher in age, would be rated higher in merit. **Reservation Category-wise merit-rank list shall be prepared on the basis of reservation category mentioned in the OMR answer sheet by the candidate.**
- (ii) The result of the AIEEA-UG-2011 is likely to be declared around **third week of May 2011**. The copies of the result will also be displayed at the Examination Cell of the Indian Council of Agricultural Research, Krishi Anusandhan Bhavan-II, Pusa, New Delhi-110 012.
- (iii) The result of the entrance examination would be available in terms of overall merit-rank obtained by the candidate and also whether candidate has qualified for counseling or not.
- (iv) All announcements related to the conduct of entrance examination including, issue of examination notification, admit card information, examination result, call letter for counseling, general notices, etc. would be posted regularly and available on the ICAR website <http://www.icar.org.in>. **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 by post or otherwise.**
- (v) No separate intimation about the non-selection of the candidate in AIEEA-UG-2011 Examination, nor marks obtained therein, will be available or sent to the candidate and no correspondence in this regard will be entertained.

7.8 No Re-Checking/ Re-Evaluation of OMR Answer Sheets: The answer sheets of the entrance examination are in the format of OMR sheets, which are evaluated through computerized scanning/processing. Therefore, there is no provision of re-checking/re-evaluation of OMR answer sheets. No correspondence in this regard will be entertained.

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 the choice of the candidate and the 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 he/she would, thereafter, be governed by all the academic rules/regulations including migration, as applicable at that university. ICAR will not entertain any request from the candidates in any matter thereafter.
- (ii) Once recommendation for admission is finalized, change in the placement of subject/university or transfer/migration would not be permissible. ICAR will have no responsibility for change of subject/university after the date of 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 the 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 Education Division, ICAR, shall fall within the jurisdiction of Delhi Courts only.

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 Application Form

- (i) Every Information Bulletin bears a serial number (known as **Application Number**) at the bottom right hand corner which is also indicated at the top of Application Form and both copies of Admit Cards. Please check that this number is the same at all places. In case of any discrepancy, you must get the copy of Information Bulletin exchanged at the counter. **This Application number, Subject Stream (A or B) for examination, the Examination City Center chosen and the Sex, must be quoted in all future correspondence.**
- (ii) A candidate can apply for giving 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 counseling based on availability of seats, and merit rank of the candidate.
- (iii) Application, filled-in, correctly in neat handwriting and complete in all respects,

along with Acknowledgement card, duly affixed with postal stamp of an appropriate amount, should be submitted so as to reach the Controller of Examination(Education), ICAR, Room No. 216, Krishi Anusandhan Bhavan-II, Pusa, New Delhi 110 012, well in time but not later than the last date, i.e. **February 15, 2011**. The last date for receipt of 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 **February 22, 2011**. Any application received after the last date will be summarily rejected and no claim/correspondence in this regard will be entertained. ICAR will not be responsible for any postal delays in this regard.

- (iv) 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.
- (v) 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.
- (vi) Detailed instructions for filling and submitting application are given in **ANNEXURE-X** of this Bulletin.
- (vii) 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.

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 Admit Card, duly attested, will not be admitted to the Examination Hall under any circumstances.
- (iii) Pre-written material in any form, notes/books

etc., and mobile phones/ipods etc are not allowed inside the examination hall. 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 signal will be given at the beginning of the examination and at half-time. A signal will also be given at the closing time when the candidate must stop writing/markings the answers.
- (vi) Candidate who comes late, 30 minutes after the commencement of the examination, will not be permitted.
- (vii) Five minutes before the commencement of the examination, each candidate will be given Question Booklet and OMR Answer Sheet.
- (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 BALL-POINT PEN ONLY. Candidate will not open the Question Booklet, until asked to do so by the Invigilator.
- (ix) Candidate will write required particulars on OMR answer sheet with BLACK BALL-POINT PEN on SIDE-I and with HB pencil or black ball-point pen on SIDE-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 Invigilators before leaving the 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 have been correctly filled-in.
- (xii) The OMR Answer sheet shall be scanned and evaluated through computer and the **final category-wise merit list for counseling shall be prepared based on the information filled in the 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.

- (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 black ball-point pens, HB pencils, sharpener and erasers of good quality.
- (xv) Any attempt of using unfair means by the candidate during the examination process will liable him/her 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 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, the candidate should report immediately 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 further necessary action.

8.4 Writing Answers on OMR Answer Sheet

- (i) Candidates are advised to go through the (Specimen) copy of OMR Answer sheet as 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 and Side-II, containing circles/bubbles.

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

Item No. 1–4: Write full name, father's name, roll number and Examination-City-Centre Code in column 1 to 4 exactly as given in the admit card.

Item No. 5: Fill-in the Question Booklet serial number as indicated on the Question Booklet. You may suppress the leading zero, if any.

Item No. 7: Put your signature in full, which must match with the signature as recorded in the application.

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

Item No. 8: 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. 9: Shade/darken the circle/bubble of **Stream-A** or **Stream-B** as the case may be.

(A – Agriculture / Biology group),
(B – Mathematics group).

Item No. 10: Shade/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. 11: Shade/darken the circle of Optional Paper attempted, Agriculture/Biology/Mathematics, as the case may be.

Item No. 12: Shade/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
- PH – for Physically Handicapped
- UPS – for Under Privileged States
- OBC – for Other Backward Classes having Central OBC certificate
- GEN – for General category

NOTE:

- (a) In case columns 9 & 10 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 12 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 by the Invigilator which is a must for authentication and evaluation of the answer sheet.

- (iii) Corresponding to every serial number of question booklet, numbering 001 to 180, there is a corresponding answer-row on the Side-2 of OMR Answer sheet, comprising of four circles/bubbles for recording correct answer to the question by shading/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 HB Pencil/black 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

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

Q.No. 004 (A) ● (C) (D)

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

8.5 Changing an Answer: The candidate may opt to answer on the OMR Answer sheet by shading/darkening the appropriate circle/bubble either with black ball-point pen or HB pencil at his/her choice. However, candidates opting for answering with black ball-point pen will not be allowed to change the answer once marked as the computer

processing will automatically discredit marking of more than one answers to a question during evaluation. In case of opting to answer with HB-pencil, the candidates would have an option to change the answer by completely erasing the pencil-mark, and then shading/darkening the appropriate circle/bubble with HB pencil. Candidate must also ensure that no visible mark is left after erasing, otherwise the answer will be treated as wrong and it will invite negative marking. The candidate should bring his/her own black ball-point pen, eraser, sharpener and HB pencil (any other pencil like HH, HHH etc. should not be used).

8.6 Wrong/Incorrect Way of Marking: If more than one circle/bubble is shaded/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 shaded/darkened circle/bubble or otherwise marked circle/bubble will also be treated as wrong and shall be rejected during scanning through Optical Scanner. It will also invite negative marking. **Any indicative marking or stray marks on the OMR answer sheet shall be treated as an act of unfair means and shall discredit the candidate during optical scanning. The candidate must also ensure that the OMR answer sheet is not folded.**

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 rough work 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**. 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 photocopies, to be produced at the time of counseling:
 - (a) Date of Birth Certificate
 - (b) Original Certificates along with Marks sheet/grade reports of all examinations from Class-X onwards.
 - (c) Provisional certificates of qualifying 10+2/Intermediate examination issued by the Board/University. (Those who do not have the provisional certificates, should produce documentary evidence from their Controller of Examination about their latest academic status and likely date of declaration of the result/date of issue of Provisional Certificate).
 - (d) Character Certificate from Head of the institution last attended.
 - (e) Certificates for reserved categories.
 - (f) Admit card for the entrance examination
 - (g) Counseling call/intimation letter from ICAR
 - (h) Authority letter/undertaking in the prescribed format (**ANNEXURE-III**) if the candidate is unable to attend personally for counseling.

9.2 Admission through Counseling

- (i) The candidates qualified for counseling and called for consideration for provisional allocation 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, OBC and UPS categories and a minimum of 40% marks for SC/ST/PH categories in the Entrance examination.
- (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.
- (iii) The candidate or authorized representative called for counseling (personal appearance) should bring the counseling intimation letter issued/downloaded from ICAR site, Admit

Card, All Original Certificates with Mark-sheets, SC/ST/PH/UPS/OBC Category Certificate in original for verification and submission. An amount of ₹ 2,000/- (Rupees Two Thousand only) in Cash, should also be brought as part admission fee to be deposited with the Registrar of the allotted university.

- (iv) Authorized representative should also bring the duly filled-in Authority Letter, duly attested by competent authority (**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 before 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 the 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 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. 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.**
- (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.

- (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 eligibility requirements.
- (xi) It should be noted carefully that ICAR allocates the University, whereas the choice of College within the University allotted shall be regulated by the University itself. Candidate may not approach ICAR, thereafter, for any specific College within the allotted University.
- (xii) In case a candidate has been allotted any 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 request the allotted University for the same directly.
- (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.

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 (specimen copy is at **ANNEXURE-XIV**).

- (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) 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 Miscellaneous

- (i) ICAR seats, if remaining vacant even after utilizing the ICAR waitlist candidates, shall automatically stand released to the Agricultural University concerned for filling up at their level and as per their procedure for selection/admission.
- (ii) The candidate admitted provisionally to an Agricultural University through ICAR examination, shall have to report to the concerned Agricultural Universities 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.

10.0 INSTITUTIONAL INFORMATION FOR N.D.R.I.

(DAIRY TECH.): All (100%) seats at N.D.R.I., Karnal in Dairy Technology will be filled based on merit-rank in this examination. Reservation of SC, ST, PH 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-2011)**

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

Keplar'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. Kirchoff'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, helminthis, 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 germs 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 heredity 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 - hematology, 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. neanderthlensis*, 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, dextrans. 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 aminocentesis. 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 $\sin^2x + \cos^2x=1$, 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:

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

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

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

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

1. **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.
2. **Complex Numbers and Quadratic Equations:** Need for complex numbers, especially $\sqrt{-1}$, 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.
3. **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.
4. **Permutations & Combinations:** Fundamental principle of counting. Factorial n . ($n!$). Permutations and combinations, derivation of formulae and their connections, simple applications.
5. **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.
6. **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 $\sum n^3$.
7. **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.
8. **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

1. **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.
2. **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.
3. **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

1. **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.
2. **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.
3. **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.
4. **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

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

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

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.
- 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

- 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.
- 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

- 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.
- 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: Agro meteorology, 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, cockrels 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, oils 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.

**UNIVERSITY-WISE, SUBJECT-WISE TENTATIVE NUMBER OF SEATS FOR UG
ADMISSION FOR THE ACADEMIC SESSION 2011–2012**

Sr. No.	Name of University	Agriculture					Horticulture						
		Gen	SC	ST	Total	PH	UPS	Gen	SC	ST	Total	PH	UPS
1.	AAU, Anand, Gujarat	9	2	1	12	0	0						
2.	AAU, Jorhat, Assam	20	4	2	26	1	1						
3.	ANGRAU, Hyderabad, AP	58	11	6	75	2	2						
4.	A.P. Horticultural Univ. Venkataramannagudem, AP							26	5	3	34	1	1
5.	BAU, Kanke, Ranchi, Jharkhand	6	1	1	8	0	0						
6.	BAU Sabour, Bhagalpur, Bihar	13	3	2	18	1	0	3	1	0	4	0	0
7.	BCKVV, Mohanpur, WB	12	2	1	15	0	0	4	1	0	5	0	0
8.	BHU, Varanasi, UP	10	3	1	14	1	0						
					+5(OBC)								
9.	CAU, Imphal, Manipur	6	2	1	9	0	1	3	1	1	5	0	0
					+4 (OBC)						+ 2 (OBC)		
10.	CCSHAU, Hisar, Haryana	21	4	2	27	1	1						
11.	CSAUA&T, Kanpur, UP	14	3	1	18	1	0						
12.	CSKHPKV, Palampur, HP	4	1	0	5	0	0						
13.	Dr BSKKV, Dapoli, MS	15	3	1	19	1	1	4	1	0	5	0	1
14.	Dr PDKV, Akola, MS	61	12	6	79	2	2	4	1	0	5	0	0
15.	Dr YSPUH&F, Solan, HP							7	2	1	10	0	0
16.	GBPUA&T, Pantnagar, UK	30	6	3	39	1	1	5	1	1	7	0	1
17.	IGKV, Raipur, CG	28	6	3	37	1	1						
18.	JAU, Junagadh, Gujarat	7	2	1	10	0	0						
19.	JNKVV, Jabalpur, MP	23	5	2	30	1	1						
20.	KAU, Thrissur, Kerala	25	5	2	32	1	1						
21.	MAU, Parbhani, MS	46	9	4	59	2	1	4	1	0	5	1	0
22.	MPKV, Rahuri, MS	59	11	6	76	2	2	3	1	1	5	0	0
23.	MPUA&T, Udaipur, Raj.	9	2	1	12	0	0	4	0	0	4	0	0
24.	Nagaland University, SASARD, Medziphema	7	1	1	9	0	0						
25.	NAU, Navsari, Gujarat	9	1	1	11	0	0	4	1	0	5	0	0
26.	NDUA&T, Faizabad, UP	12	2	1	15	1	0	4	0	0	4	0	0
27.	OUA&T, Bhubaneswar, Orissa	18	3	2	23	1	0	4	0	0	4	0	0
28.	PAU, Ludhiana, PB	13	2	1	16	1	0						
29.	PSBVB, Sriniketan (W.B.)	5	1	1	7	0	0						
					+2(OBC)								
30.	RAU, Pusa, Bihar	7	1	1	9	0	0	3	1	0	4	0	0
31.	RVSKVV, Gwalior, MP	26	5	2	33	1	1	5	1	0	6	0	0
32.	SHIATS, Allahabad	14	3	1	18	1	1						
33.	SKDAU, Sardarkrushinagar, Gujarat	10	1	1	12	0	0	4	1	1	6	0	0
34.	SKRAU, Bikaner, Raj.	18	4	2	24	1	0						
35.	SKUAS&T, Jammu, J&K	7	1	0	8	0	0						
36.	SKUAS&T of K, Srinagar, J&K	6	1	1	8	0	0	1	0	0	1	0	0
37.	SVBPUA&T, Meerut, UP	8	1	1	10	0	0						
38.	TNAU, Coimbatore, TN	29	6	3	38	1	1	5	1	1	7	1	0
39.	UAS, Bangalore, Karnataka	46	9	5	60	2	1						
40.	UAS, Dharwad, Karnataka	24	5	2	31	1	1						
41.	UAS, Raichur, Karnataka	14	3	1	18	1	0						
42.	UBKV, Cooch Behar, WB	7	1	0	8	0	0	2	0	0	2	0	0
43.	UHS, Bagalkot, Karnataka							39	7	4	50	2	1
Total		756	148	74	978	30	20	138	27	13	178	5	4
					+11(OBC)						+2 (OBC)		

Sr. No.	Name of University	Forestry					Fisheries						
		Gen	SC	ST	Total	PH	UPS	Gen	SC	ST	Total	PH	UPS
1.	AAU, Jorhat, Assam							3	0	0	3	0	1
2.	ANGRAU, Hyderabad. AP												
3.	BAU, Ranchi. JD	3	1	0	4	0	0						
4.	CAU, Imphal. Manipur	2	1	0	3	0	0	2	1	1	4	0	0
					+1 (OBC)						+1 (OBC)		
5.	CSAUA&T, Kanpur. UP	3	1	0	4	0	0						
6.	Dr BSKKV, Dapoli. MS	3	1	1	5	0	0	5	1	0	6	1	0
7.	Dr PDKV, Akola. MS	4	1	0	5	1	0						
8.	Dr YSPUH&F, Solan. HP	6	1	1	8	0	0						
9.	GADVASU, Ludhiana. PB							3	0	0	3	0	0
10.	GBPUA&T, Pantnagar. UK	5	1	0	6	1	0	5	1	0	6	1	0
11.	JAU, Junagadh. Gujarat							5	1	0	6	0	0
12.	JNKVV, Jabalpur. MP	3	0	0	3 ^x	0	0						
13.	KAU, Thrissur. Kerala	3	1	1	5	0	0	5	1	1	7	0	1
14.	KVAFSU, Bidar. Karnataka							4	1	1	6	0	0
15.	MAFSU, Nagpur. MS							8	1	1	10	1	0
16.	MPUA&T, Udaipur. Rajasthan	2	0	0	2	0	0	2	0	1	3	0	0
17.	NAU, Navsari. Gujarat	3	1	0	4	0	0						
18.	NDUA&T, Faizabad. UP							3	1	0	4	0	0
19.	OUA&T, Bhubaneswar. Orissa	3	0	1	4	0	0	3	0	0	3	0	0
20.	RAU, Pusa. Bihar							3	1	0	4	0	0
21.	SHIATS, Allahabad. UP	7	1	1	9	0	0						
22.	SKUAS&T(K), Srinagar. J&K	3	0	0	3	0	0	2	0	0	2	0	0
23.	SVV University, Tirupati. AP							3	1	1	5	0	0
24.	TNAU, Coimbatore. TN	3	0	0	3	0	1						
25.	TNV&ASU, Chennai. TN							4	1	0	5	0	0
26.	UAS, Bangalore. Karnataka	6	1	1	8	0	0						
27.	UAS, Dharwad. Karnataka	5	1	0	6	0	1						
28.	WBUA&FS, Kolkata. WB							3	1	0	4	0	0
	Total	64	12	6	82	2	2	63	12	6	81	3	2
					+1(OBC)						+1(OBC)		

*** 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 in four 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. No.	Name of University	Home Science					Sericulture						
		Gen	SC	ST	Total	PH	UPS	Gen	SC	ST	Total	PH	UPS
1.	AAU, Jorhat. Assam.	5	1	1	7	0	0						
2.	ANGRAU, Hyderabad. AP	9	2	1	12	1	1						
3.	CAU, Imphal. Manipur	3	1	0	4	0	0						
					+1 (OBC)								
4.	CCSHAU, Hisar. Haryana	9	2	1	12	1	0						
5.	CSAUA&T, Kanpur. UP	5	1	0	6	0	0						
6.	CSKHPKV, Palampur. HP	3	0	0	3	0	0						
7.	GBPUA&T, Pantnagar. UK	15	3	2	20	1	1						
8.	MAU, Parbhani. MS	4	1	0	5	0	0						
9.	MPUA&T, Udaipur. Rajasthan	5	1	0	6	0	0						
10.	NDUA&T, Faizabad. UP	6	1	1	8	0	0						
11.	OUA&T, Bhubaneswar. Orissa	4	1	0	5	0	0						
12.	PAU, Ludhiana. PB	6	1	1	8	0	0						
13.	RAU, Pusa. Bihar	3	1	0	4	0	0						
14.	SHIATS, Allahabad. UP	7	1	1	9	0	1						
15.	SKDAU, Sardarkrushinagar. Gujarat	6	1	1	8	0	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	4	0	0	4	0	0						
19.	UAS, Bangalore. Karnataka							4	1	1	6	0	0
20.	UAS, Dharwad. Karnataka	7	2	1	10	1	0						
	Total	106	21	10	137	4	3	5	1	1	7	0	0
					+1 (OBC)								

Sr. No.	Name of University	Agricultural Engineering					Dairy Technology						
		Gen	SC	ST	Total	PH	UPS	Gen	SC	ST	Total	PH	UPS
1.	AAU, Anand. Gujarat	4	1	0	5	0	0	4	1	1	6	0	0
2.	ANGRAU, Hyderabad. AP	11	2	1	14	1	1						
3.	BAU Sabour, Bhagalpur. Bihar							4	0	0	4	0	0
4.	BCKVV, Mohanpur. WB	3	1	0	4	0	0						
5.	CAU, Imphal. Manipur	3	1	1	5	0	0						
+2 (OBC)													
6.	CCSHAU, Hisar. Haryana	7	1	1	9	0	1						
7.	CSAUA&T, Kanpur. UP	5	1	0	6	0	0						
8.	Dr BSKKV, Dapoli. MS	4	1	0	5	0	0						
9.	Dr PDKV, Akola. MS	6	1	1	8	1	0						
10.	GADVASU, Ludhiana. PB							4	0	0	4	0	0
11.	GBPUA&T, Pantnagar. UK	7	1	1	9	1	0						
12.	IGKVV, Raipur. CG	5	1	1	7	0	0	4	1	0	5	0	0
13.	JAU, Junagadh. Gujarat	6	1	1	8	0	0						
14.	JNKVV, Jabalpur. MP	7	1	1	9	0	0						
15.	KAU, Thrissur. Kerala	3	1	0	4	0	0	3	1	0	4	0	0
16.	KVAFSU, Bidar. Karnataka							3	1	1	5	0	0
17.	MAU, Parbhani. MS	7	1	1	9	1	0						
18.	MAFSU, Nagpur. MS							8	1	1	10	1	1
19.	MPKV, Rahuri. MS	7	2	1	10	0	0						
20.	MPUA&T, Udaipur. Raj.	6	1	1	8	0	0	4	1	0	5	0	0
21.	NDRI, Karnal. Haryana							22	8	4	34	1	1
+ 13 (OBC)													
22.	NDUA&T, Faizabad. UP	12	2	1	15	1	0						
23.	OUA&T, Bhubaneswar. Orissa	3	1	0	4	0	0						
24.	PAU, Ludhiana. PB	6	1	1	8	0	1						
25.	RAU, Pusa. Bihar	3	1	0	4	0	0						
26.	SHIATS, Allahabad. UP	21	4	2	27*	1	1	7	1	1	9	1	0
27.	SKDAU, Sardarkrushinagar. Gujarat							5	1	0	6*	0	0
28.	SKUAS&T (K), Srinagar. J&K	1	0	0	1	0	0						
29.	SVV University, Tirupati. AP							5	1	1	7	0	0
30.	TNAU, Coimbatore. TN	5	1	0	6	0	0						
31.	UAS, Bangalore. Karnataka	7	1	0	8	0	0						
32.	UAS, Raichur. Karnataka	4	1	0	5	0	0						
33.	UBKVV, Cooch Behar. WB	2	0	0	2	0	0						
34.	WBUA&FS, Kolkata. WB							4	0	0	4	0	0
Total		155	30	15	200	6	4	77	17	9	103	3	2
+2(OBC)											+13(OBC)		

* Dairy & Food Technology

+ 9 seats for B.Tech. Water Resource Engineering

Sr. No.	Name of University	Food Science					Agri. Mktg. & Coop.						
		Gen	SC	ST	Total	PH	UPS	Gen	SC	ST	Total	PH	UPS
1.	AAU, Anand. Gujarat	4	1	0	5*	0	0	4	1	0	5×	0	0
2.	ANGRAU, Hyderabad. AP	11	2	1	14 ⁺⁺⁺	0	1	4	1	1	6 ⁺⁺	0	0
3.	CAU, Imphal. MA	2	0	0	2	0	0						
+1 (OBC)													
4.	GBPUA&T, Pantnagar. UK	9	2	1	12	1	0						
5.	KAU, Thrissur. Kerala							5	1	0	6 ⁺	0	1
6.	MAU, Parbhani	7	1	1	9 [@]	0	0						
7.	MPUA&T, Udaipur	3	1	0	4	0	0						
8.	RAU, Pusa	4	1	0	5	0	0						
9.	SHIATS, Allahabad	11	2	1	14	1	1						
10.	UAS, Bangalore	6	1	1	8	0	0	7	1	0	8 ⁼	1	0
11.	UAS, Dharwad							6	1	1	8 ^a	0	0
Total		57	11	5	73	2	2	26	5	2	33	1	1
+1 (OBC)													

+ B.Sc. (Cooperation & Banking)

++ B.Sc. (Commercial Agriculture and Business Management) (3 for Bio-Agri. and 3 for Maths Stream)

* Food Processing Technology.

× Agril. Information Technology.

@ for PCB

= for PCM/ PCB

+++ Available 7 seats for PCB Stream

^a 3 seats for PCM +5 seats for PCB

Sr. No.	Name of University	Biotechnology					
		Gen	SC	ST	Total	PH	UPS
	SKUAST, Jammu. J&K	3	1	0	4 ⁺⁺	0	0
	SVBPUA&T, Meerut. UP	8	1	1	10 ^x	1	0
	UAS Bangalore. Karnataka	6	1	1	8 ⁺	0	1
	Total	17	3	2	22	1	1

^x B. Tech (Biotechnology) for PCM/PCMB

⁺ B.Sc.(Agri Biotech) for PCB

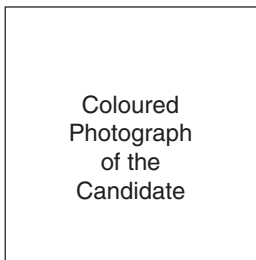
⁺⁺ B.Sc. Biotechnology for PCM

- NOTE:**
- The number of seats given above are indicative only. Exact number of seats would be as finalized by the Agricultural University.
 - 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 and Viswa Bharati, Shantiniketan (PSB, VB) Universities.
 - The seats reserved for PH/UPS categories will be provided to the candidates against the categories, i.e. Gen/SC/ST/OBC to which they belong.

**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:



Coloured
Photograph
of the
Candidate

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

NAME :

ROLL NO. :

MERIT RANK :

ADDRESS :

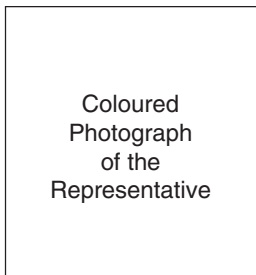
.....

.....

(Signature of the authorized representative)

.....

(Attested by the Candidate)



Coloured
Photograph
of the
Representative

Photograph of
representative
Attested by the
Gazetted Officer

I.....Son/Daughter of Shri.....
aged.....Yearsmonth bearing Roll No. placed at Overall Merit-Rank
(in ICAR's All India Entrance Examination-UG-2011) 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 & Die) SCs Order, 1968; the Constitution (Nagaland) STs Order, 1970; the Constitution (Sikkim) SCs Order, 1968.
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 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 No.186 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 published in the Gazette of India Extraordinary Part I Section I No. 210 dated 16/01/2006.
- (xvi) Resolution no. 12011/14/2004-BCC dated the 12th March, 2007, published in the Gazette of India-Extraordinary-Part I, Section 0-I, No.67 dated 12th January, 2007.

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. 36033/3/2004 Estt.(Res.) dated 09/03/2004.

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 / 1st Class Stipendiary Magistrate / Sub-Divisional magistrate / Taluka Magistrate / Executive Magistrate / Extra Assistant Commissioner (not below the rank of 1st 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 in services 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.36033/3/2004 Estt.(Res.) dated 9/3/2004.

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 Rs. 4.5 Lakhs per year.

EXAMINATION CITY CENTRES AND NODAL OFFICERS' CONTACT ADDRESSES

Examination City Center (Code No.) City Center	Alphabetic Code for Examination	Name of Examination City Center	Contact Phone No.of Nodal Officer	Address of Nodal Officers
01	AND	Anand	0268-2578602	Director, National Research Centre for Medicinal & Aromatic Plants, Boriavi, Anand-387 310. Gujarat
02	BAN	Bangalore	080-28466353	Indian Institute of Horticultural Research, Hessaraghatta Lake, Bangalore-560 089. Karnataka
03	BBR	Bhubaneswar	0674-2300060	Director, Water Technology Centre for Eastern Region, Chandrasekharpur, Bhubaneswar-751 023. Orissa.
04	BIK	Bikaner	0151-2230183	Director, National Research Centre on Camel, Jorbeer, Bikaner-334 001. Rajasthan.
05	CBR	Coimbatore	0442-2472986	Director, Sugarcane Breeding Institute, Coimbatore-641 007. TN
06	CHN	Chennai	044-24617253	Director, Central Institute of Brackish Water Aquaculture, R.A. Puram, Chennai-600 028. TN
07	COC	Cochin	0484-2394798	Director, Central Marine Fisheries Research Institute, Ernakulam North, Cochin-682 018. Kerala
08	DEL	Delhi	011-25848033	Deputy Secretary (Education), ICAR, KAB-II, Pusa, New Delhi-110 012
09	DHR	Dharwad	0836-2747958	Registrar, University of Agricultural Sciences, Dharwad-580005. Karnataka.
10	GTK	Gangtok	03592-231030	Head, ICAR Complex to NEH, Tadong, Gangtok-737 102. Sikkim
11	GUH	Guwahati	0361-2337700	Dean, College of Veterinary Science, Khanapara, Guwahati. Assam
12	HIS	Hisar	01662-275787	Director, National Research Centre on Equines, Hisar-125 001. Haryana
13	HYD	Hyderabad	040-24530177	Director, Central Research Institute for Dryland Agriculture, Santoshnagar, Hyderabad-500 059. AP
14	IMP	Imphal	0385-2410644	Registrar, Central Agricultural University, Imphal. Manipur
15	IND	Indore	0731-2476188	Director, National Research Centre for Soybean, Khandwa Road, Indore-452 017, Madhya Pradesh
16	JAM	Jammu	0191-2262845	Dean, College of Agriculture, SKUAS&T, Jammu, Jammu and Kashmir
17	JBL	Jabalpur	0761-2353138	Director, National Research Centre for Weed Science, Adhartal, Jabalpur-482 004
18	KAR	Karnal	0184-2259009	Registrar (Academic), NDRI, Karnal, Haryana
19	KOL	Kolkata	033-24711807	Director, NIRJAFT, 12 Regent Park, Kolkata-700 040. West Bengal
20	KOT	Kota	0744-2462642	Head, Central Soil & Water Conservation Research and Training Institute Research Centre, Dadwara, Kota-324 002. Rajasthan
21	LDH	Ludhiana	0161-2808669	Director, Central Institute of Post Harvest Engg. & Technology, P.O. PAU, Ludhiana-141 004. Punjab.

Examination City Center (Code No.) City Center	Alphabetic Code for Examination	Name of Examination City Center	Contact Phone No. of Nodal Officer	Address of Nodal Officers
22	LKW	Lucknow	0522-2480726	Director, Indian Institute of Sugarcane Research, Lucknow-226 002. UP
23	MAN	Mannuthy	0487-2370344	Dean, Veterinary College, KAU, Mannuthy. Kerala
24	MOH	Mohanpur	033-25878163	Registrar, BCKVV, Mohanpur, Distt., Nadia. West Bengal
25	NAG	Nagpur	07103-275536	Director, Central Institute for Cotton Research, Nagpur-440 010. Maharashtra
26	PAL	Palampur	01894-230383	Registrar, CSKHPKV, Palampur. Himachal Pradesh
27	PAT	Patna	0612-2223962	Director, ICAR Research Complex for Eastern Region, ICAR Parisar, P.O. Bihar Veterinary College, Patna-800 014. Bihar
28	PBR	Port Blair	03192-250436	Director, Central Agricultural Research Institute, Port Blair-744 101. A&N.
29	PNT	Pantnagar	05944-233640	Registrar, GBPUA&T, Pantnagar, Distt. Udham Singh Nagar-263145. Uttarakhand
30	PUN	Pune	020-26914245	Director, National Research Centre on Grapes, Pune-412 307. Maharashtra.
31	PUS	Pusa (Bihar)	06274-240239	Registrar, Rajendra Agricultural University, Pusa (Samastipur)-848125. Bihar
32	RAN	Ranchi	0651-2261156	Director, Indian Institute of Natural Resins & Gums, Namkum, Ranchi-834 010. Jharkhand.
33	RAP	Raipur	0771-2442491	Dean, College of Agriculture, IGKV, Raipur. Chhattisgarh
34	SGR	Srinagar (Kashmir)	0194-2305044	Director, Central Institute of Temperate Horticulture, Old Air Field, Rangreth, Srinagar-190 007. J&K
35	SHG	Shillong	0364-2570257	Director, ICAR Research Complex for NEH Region, Umroi Road, Umiam, (Ri-Bhoi)-793103. Meghalaya
36	SOL	Solan	01792-252219	Registrar, Dr. YSPUH&F, Nauri, Solan. Himachal Pradesh
37	TRP	Tirupati	0877-2248894	Registrar, Sri Venkateswara Veterinary University, Tirupati, Chittoor-517 502. AP
38	UDP	Udaipur	0294-2418976	Dean, Rajasthan College of Agriculture, Udaipur-313001. Rajasthan.
39	VAR	Varanasi	0542-2635236	Director, Indian Institute of Vegetable Research, Varanasi-221 005. UP

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 around 20th March 2011 or it can be seen with the above Nodal Officers two days before the examination date.

DOMICILE STATE CODES

Name of the State/UT	Code Number	Code Name
Andaman & Nicobar Islands	01	A N
Andhra Pradesh	02	A P
Arunachal Pradesh	03	A R
Assam	04	A S
Bihar	05	B I
Chandigarh (U.T.)	06	C H
Chhattisgarh	07	C G
Dadra & Nagar Haveli (U.T.)	08	D N
Daman & Diu (U.T.)	09	D D
Delhi	10	D L
Goa	11	G O
Gujarat	12	G U
Haryana	13	H R
Himachal Pradesh	14	H P
Jammu & Kashmir	15	J K
Jharkhand	16	J D
Karnataka	17	K T
Kerala	18	K E
Lakshadweep (U.T.)	19	L D
Madhya Pradesh	20	M P
Maharashtra	21	M S
Manipur	22	M A
Meghalaya	23	M G
Mizoram	24	M Z
Nagaland	25	N G
Orissa	26	O R
Puducherry (U.T.)	27	P D
Punjab	28	P U
Rajasthan	29	R A
Sikkim	30	S I
Tamil Nadu	31	T N
Tripura	32	T R
Uttarakhand	33	U K
Uttar Pradesh	34	U P
West Bengal	35	W B
Others (if any)	36	O T

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.	Chhatisgarh Madhyamik Siksha Mandal	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 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.

**AGRICULTURAL UNIVERSITIES FOR ADMISSION IN BACHELOR DEGREE
PROGRAMMES IN AGRICULTURE AND ALLIED SCIENCE SUBJECTS THROUGH
AIEEA-UG-2011, 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 (AP)	040-24015 011 040-24015 122	040-24015 031
2.	Anand Agricultural University, Anand-388 110 (Gujarat)	02692-261 310 02692-261 520	02692-261 310
3.	A.P. Horticultural University, Venkataramannagudem, West Godavari-534 101 (A.P.)	08818-284 445	-
4.	Assam Agricultural University, Jorhat-785 013 (Assam)	0376-2340 008	0376-2340 001
5.	Bidhan Chandra Krishi, Viswavidyalaya, Mohanpur, Nadia-741 252 (West Bengal)	033-25878 163	03473-222 277
6.	Bihar Agricultural University, Sabour, Distt. Bhagalpur-813210. Bihar.	06274-240 239	06274-240 255
7.	Birsa Agricultural University, Kanke, Ranchi-834 006 (Jharkhand)	0651-2450 832	0651-2450 850
8.	Ch. Sarwan Kumar Himachal Pradesh Krishi VishvaVidyalaya, Palampur-176 062 (HP)	01894-230 383	01894-230 511
9.	C.S. Azad University of Agri. & Technology, Kanpur-208 002 (UP)	0512-2533 704	0512-2533 808
10.	Ch. Charan Singh Haryana Agricultural University, Hisar-125 004 (Haryana)	01662-234 613	01662-234 613
11.	Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli, Distt. Ratnagiri-415 712 (Maharashtra)	02358-282 065	02358-282 065 02358-282 074
12.	Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Krushinagar, Akola-444 104 (Maharashtra)	0724-2258 372	0724-2258 372
13.	Dr. Yashwant Singh Parmar Univ. of Horticulture & Forestry, Solan, Nauni-173 230 (HP)	01792-252 219	01792-252 009
14.	G.B. Pant University of Agri. & Technology, Pantnagar, Distt. Udham Singh Nagar-263 145 (Uttarakhand)	05944-233 640	05944-233 640 05944-233 473
15.	Guru Angad Dev Veterinary & Animal Sciences University, Ludhiana-141 004 (Punjab)	0161-2553 342 0161-2553 343	0161-2553340 0161-2553356
16.	Indira Gandhi Krishi Vishwavidyalaya, Krishak Nagar, Raipur-492 012 (Chhattisgarh)	0771-2442 537	0771-2442 302 0771-2444 293
17.	Jawaharlal Nehru Krishi Viswa Vidyalaya, Adhartal, Jabalpur-482 004 (MP)	0761-2481 778	0761-2481 778
18.	Junagadh Agricultural University, Junagadh-362 001 (Gujarat)	0285-2672 346	0285-2672 482
19.	Karnataka Veterinary Animal & Fisheries Sciences University, Bidar. Karnataka	08482-245 106	08482-245 107
20.	Kerala Agricultural University, Vellanikara, Thrissur-680 656 (Kerala)	0487-2371 619 0487-2370 432	0487-2370 019
21.	Maharana Pratap University of Agriculture & Technology, Udaipur-313 001 (Rajasthan)	0294-2471 302	0294-2471 302
22.	Maharashtra Animal Science & Fishery University, Seminary Hills, Nagpur-440 006 (Maharashtra)	0712-2511 273	0712-2511 273
23.	Mahatma Phule Krishi Vidyapeeth, Rahuri-413 722 (Maharashtra)	02426-243 216	02426-243 216
24.	Marathwada Agricultural University, Parbhani-431 402 (Maharashtra)	02452-229 755	02452-229 755

Sr. No.	Name & Address of University	Tel. No. of Registrar with STD code	Fax No. of Registrar
25.	Narendra Deva University of Agri. and Technology, Kumarganj, Faizabad-224 229 (Uttar Pradesh)	05270-262 035	05270-262 035
26.	National Dairy Research Institute, Karnal-132 001 (Haryana)	0184-2259 008	0184-2250 042
27.	Navsari Agricultural University, Eru Char Rasta, Navsari-396 450 (Gujarat)	02637-282 823 02637-282 771	02637-283 794 02637-284 254
28.	Orissa University of Agriculture & Technology, Bhubaneshwar-751 003 (Orissa)	0674-2391 424	0674-2391424
29.	Punjab Agricultural University, Ludhiana-141 004 (Punjab)	0161-2400 955	0161-2400 955
30.	Rajendra Agricultural University, Pusa, Samastipur-848 125 (Bihar)	06274-240 239	06274-240 277
31.	Rajmata Vijayaraje Scindia Krishi Vishwa Vidyalaya, Race Course Road, Gwalior-474 002 (M.P.)	0751-2467066	0751-2467672
32.	Sardar Vallabh Bhai Patel Univ. of Agriculture & Technology, Modipuram, Meerut-250 110 (UP)	0121-2411 525	0121-2411 505
33.	Sardarkrushinagar-Dantiwada Agricultural University, Sardarkrushinagar, Distt. Banaskantha-385 506(Gujarat)	02748-278 226	02748-278 234
34.	Sher-E-Kashmir University of Agricultural Sciences & Technology, Jammu-180 012 (J&K)	0191-2475 149	0191-2475 149
35.	Sher-E-Kashmir Univ. of Agril. Sciences & Technology of Kashmir, Shalimar Campus, Srinagar-191 121 (J&K)	0194-2461 271	0194-2461 271
36.	Sri Venkateswara Veterinary University Tirupati, Chittoor-517 502 (Andhra Pradesh)	0877-224 8894	0877-224 8986
37.	Swami Keshwanand Rajasthan Agricultural University, Bikaner-334 006 (Rajasthan)	0151-2250 336	0151-2250 025
38.	Tamil Nadu Agricultural University, Coimbatore-641 003 (Tamil Nadu)	0422-2431 821	0422-2431821
39.	Tamil Nadu Veterinary & Animal Sciences University, Chennai-600 051 (Tamil Nadu)	044-25551 584	044-25551 585
40.	University of Agricultural Sciences, Dharwad-580 005 (Karnataka)	0836-2747 958	0836-2745 276
41.	University of Agricultural Sciences, GKVK, Bangalore-560 065 (Karnataka)	080-23330 984	080-23330 277
42.	University of Agricultural Sciences, Raichur-584102. Karnataka.	08532-221444	08532-220444
43.	University of Horticultural Sciences, Sector No. 60, Navanagar, Bagalkot-587102. Karnataka.	08354-201354	08354-235152
44.	Uttar Banga Krishi Viswavidyalaya, PO Pundibari, Dist. Cooch Behar-736 165 (West Bengal)	03582-270 143 03582-270 588	03582-270 143
45.	West Bengal University of Animal & Fishery Sciences, 68 KB Sarani, Kolkata-700 037 (West Bengal)	033-2556 3123	033-25563 123
46.	Central Agricultural University, PO Box 23, Imphal-795 004 (Manipur)	0385-2415 196 0385-2412 944	0385-2410 414
47.	Banaras Hindu University (Institute of Agricultural Sciences)Varanasi-221 005 (UP). Dy. Registrar (Dev.)	0542-2368 558 0542-2368 174 0542-2307 276 0542-2307 270	0542-2307 222
48.	Nagaland University, School of Agricultural Sciences & Rural Development(SASARD), Medziphema-797 106. Nagaland	03862-247 255 03862-247 269	03862-247 113
49.	Visva Bharati, (Palli Siksha Bhavana), P.O. Srineketan-731 236, Birbhum (W.B.)	03463-261 531 03463-264 779	03463-261 156
50.	Sam Higginbottom Institute of Agriculture, Technology & Sciences (SHIATS) (Deemed-to-be-University), Naini, Allahabad-211 007. (U.P.) (formerly Allahabad Agricultural Institute)	0532-2684 281	0532-2684 394

DETAILED INSTRUCTIONS FOR FILLING APPLICATION FORM

Candidates are advised to note the following instructions carefully while filling and submitting the Application Form. Any mistake committed in filling the form, cannot be corrected later and ICAR will have no responsibility of any kind for such incorrectly filled forms. Candidates are advised to keep a photocopy of the filled-in Application and the Post Office registration receipt of posting the form for future correspondence, if any.

- (i) **Please ensure that you satisfy the eligibility requirements in toto as contained at item 3.0 in the Information Bulletin for appearing in the examination.**
- (ii) Fill-in both sides of the Application Form with black ball-point pen in good/neat handwriting - all in plain capital letters (do not use cursive writing).
It is suggested that the Application Form may be filled-in by a light pencil first and then checked thoroughly for correctness. When satisfied with the correctness of form-details, black ball-point pen may be used. Stray pencil marks, if any, should be completely erased. If any mistake is noticed by you afterwards, you may apply correcting white fluid on the mistakes, allow it to dry, and then make corrections by black ball-point pen.
- (iii) Overwriting, cutting, damaging the form etc. may lead to rejection of the application. Entire responsibility for such rejections shall lie with the candidate.
- (iv) Application, duly filled-in, should be submitted at the following address by Registered/Speed Post or may be deposited personally on any working day between 10.00 A.M. to 5.00 P.M.

**Controller of Examinations (Education)
Education Division, Indian Council of
Agricultural Research
Room No. 226, Krishi Anusandhan Bhavan-II
Pusa, New Delhi-110 012**

- (v) Some **important relevant dates are given below:**
- (a) Last date for purchase of Information Bulletin with Application Form by depositing cash from branches of Syndicate Bank counters.
15 February 2011
- (b) Last date for receiving request in ICAR for Information Bulletin by post and with bank draft drawn in favour of **“ICAR Unit-Education Division” payable at New Delhi**
10 February 2011

- (c) Last date for purchase of Information Bulletins/ Application Forms from offices of the Registrars of State Agricultural Universities by depositing cash only.
15 February 2011

- (d) Last date of receipt of filled-in application forms in Examination Cell, Education Division, ICAR, KAB-II, Pusa, New Delhi-110 012 from candidates (other than those located in remote areas).
15 February 2011

- (e) Last date of receipt of filled application forms in Examination Cell, Education Division, ICAR, KAB-II, Pusa, New Delhi-110 012 from candidates located in remote areas:
22 February 2011

- (f) Date and time of Examination:
16th April 2011 (Saturday) 10:00 – 12:30 hrs.
- (g) **Dates of Counseling:** Please see **ANNEXURE-XI.**

How to fill-up the Application Form

Items at Sr. No. 1, 2 and 3: Candidate should write in plain capital letters (with black ball point pen) his/ her name, Mother's name and Father's name. Write one letter only in one box. Leave one space (box) between first name, middle name and surname. Incorrect names may invite rejection of candidature at any stage.

CANDIDATE'S NAME: For example:

Anushree Devi

Write:

A	N	U	S	H	R	E	E		D	E	V	I			
---	---	---	---	---	---	---	---	--	---	---	---	---	--	--	--

MOTHER'S NAME: For example:

Shanti Devi

Write:

S	H	A	N	T	I		D	E	V	I					
---	---	---	---	---	---	--	---	---	---	---	--	--	--	--	--

FATHER'S NAME: For example:

Prabhat K Gupta

Write:

P	R	A	B	H	A	T		K		G	U	P	T	A	
---	---	---	---	---	---	---	--	---	--	---	---	---	---	---	--

Sr. No. 4: **Choice of the City of Examination Centre** - Refer **ANNEXURE-VI** of this Bulletin.

Write the Code Number (in figures) for your choice of the Examination City Centre. For example for Raipur write

3	3
---	---

 in the rectangular boxes and then darken the circle ② in first column and ① in 2nd column with black ball point pen. Other circles should be left blank.

Sr. No. 5: **School Board of Class XII** – Refer **ANNEXURE-VIII** of this bulletin.

Write the code number shown for the respective Board. For example, for Rajasthan Board of Secondary Education, write

2	3
---	---

 in the boxes and then darken the respective circles ② in 1st column and in ③ second column.

Sr. No. 6: **State of domicile** – Refer **ANNEXURE-VII**

Write the **Code No. of State of domicile** in figures (**numbers**). For example for Bihar the Code is

0	5
---	---

. Hence, the candidates from Bihar state should write the number

0	5
---	---

 in the boxes by black bold ball pen and then darken the circles ① in 1st column and in ⑤ second column as well. Similarly, the candidates from other States may fill the information accordingly as applicable to them.

Sr. No. 7: Write **State of domicile Code Name in alphabets**: Refer **ANNEXURE-VII**.

Note the alphabet Code name of your State of Domicile. For example for Rajasthan it is RA. Now write

R	A
---	---

 in the boxes by black bold ball pen.

Sr. No. 8: **Subjects taken in Class XII**: Darken the appropriate circles in front of the subjects mentioned as per your list of subjects in class XII marks sheet. Do not write any subject other than those appearing in your marksheet.

Sr. No. 9: **Subject Group for Exam**: For this examination, if you wish to appear in Agriculture as one of the subjects besides Physics and Chemistry, then write

1

 in Rectangle and fill the circle shown in front of "Agri". Similarly, if you wish to appear in Biology then write

2

 in Rectangle and darken the circle in front of "Bio". Similarly for Mathematics write 3 in Rectangle and darken the circle in front of "Maths".

Sr. No. 10: **Stream**: In case your choice for appearing in this Examination is "Agriculture" or "Biology", you should darken the circle in front of Stream "A. Agri./ Bio". For Stream "B" Mathematics, you should darken the circle in front of "B" Mathematics.

Sr. No. 11: **Sex**: write 1 for male & 2 for female in Rectangle and darken the appropriate circle; ① for Male, and ② for Female.

Sr. No. 12: **Date of Birth**: First, write the date, month, and year of your birth in rectangular boxes in numbers as given in Class X marks sheet. For example if the date of birth is 11 August 1987, it has to be written as

1	1	0	8	8	7
---	---	---	---	---	---

; one number/ digit in one box. Then, darken the appropriate circles accordingly by black ball point pen.

Sr. No. 13: **Category**: If you belong to Scheduled Caste (SC) category, write

1

 in Rectangle & darken the circle in front of SC. Similarly, the information is to be given by the

candidates from the other categories such as

2

 for ST,

3

 for PH,

4

 for UPS,

5

 for OBC and 6 for General. In case, you do not specify any reservation category, the application form is likely to be rejected / or you might be placed in general category. Names of States/UTs, which fall in category UPS is given in **item 5.2**. The category on Application Form and OMR Answer Sheet should not vary. In case of any such variation the OMR Answer Sheet shall be treated as final and no change shall be possible.

Sr. No. 14: **Medium of Question paper**: This refers to the medium/ language of Questions in which you will like to attempt this Examination. If you wish to attempt the paper in English medium, you should write

1

 in Rectangle and darken the circle. If you wish to attempt paper in Hindi, then write

2

 in Rectangle and darken the circle.

Sr. No. 15: **Place of Residence**: If a candidate has been basically residing in village, he/ she should darken the circle in front of "**Village**". Similar action is needed for residents of City and Town for darkening the appropriate circle.

Sr. No. 16: **Type of Institution of Class XII**: Darken the appropriate circle showing your School/ college type, where you have studied in class XII. If you have studied in private institution darken the circle in front of Private and similarly fill the information for other two Institution types as applicable to the candidate.

Sr. No. 17: **Nationality**: For showing Indian nationality, darken the circle ① in front of Indian.

Sr. No. 18: **Alphabetic Code name of the Examination City Centre**: Refer **ANNEXURE-VI**. Find the alphabetic code name of the Examination City Centre from where you will like to appear in this Examination. For example if it is Udaipur, write

U	D	P
---	---	---

 in the boxes; one letter in one box. It has to match with the code number of the City of Exam centre that you have filled at S. No. 4 under "Choice of Examination City Centre" in the application Form or else the candidature might be rejected.

Sr. No. 19: Write **% Marks obtained in English in XII**: If you have already passed Class XII examination, then write the percentage of your marks obtained in English subject in class XII as per the marksheet issued. For example if the marks are 53.25%, write

5	3	.	2	5
---	---	---	---	---

 in the boxes; one digit in one box, decimal is already specified. Candidates whose result is not yet declared, and those who have not studied English in Class - XII should leave this item blank.

Sr. No. 20: **Year of Passing/ appearing Class XII**: Write the year of your appearing/ passing Class XII examination. For 2010, write

2	0	1	0
---	---	---	---

 in the boxes; one digit in one box.

Sr. No. 21: Fill the **% marks in Class XII. Subject combination** PCA is Physics, Chemistry, and Agriculture or Inter (Agri.), PCH is Physics, Chemistry, Home Sc. PCB is Physics, Chemistry, Biology; PCM is Physics, Chemistry, Mathematics, and PCMB is Physics, Chemistry, Biology and Mathematics. Based on your combination of subjects in Class XII, if mark sheet has been issued, write the percentage of marks applicable to you. For example in PCB combination, if you have scored 63.54% marks write

63. 54 in the boxes in front of PCB. For any other combination of subjects, other than specified leave this item blank. Also, re-check your eligibility before proceeding further. ICAR will not engage itself into correspondence and will NOT be responsible for rejection of the Application if listed eligibility conditions are not met by the candidate(s).

Sr. No. 22: **Percentage of total aggregate marks obtained class X, Class XII:** Here, write the percentage marks scored in all subjects together in class X, and then in Class XII. Fill one digit in one box. In case, Class XII result is still awaited, leave the Class XII boxes blank.

Sr. No. 23: **Write name and complete mailing address:** This block will be scanned and used for future correspondence with the candidate. Use black ball-point pen and write in neat handwriting. Write your name and complete postal address clearly in large capital letters including Street/ Lane No./ village/P.O. etc. Also, write the state name and PIN code. In case of incomplete or wrong address, our letters/ messages may not reach you. ICAR will not be responsible for delay or non-receipt of information to the candidates on this account.

Sr. No. 24: **Signature of the candidate in running hand:** The candidate must put his/ her natural signatures by black ball-point pen. These will be scanned and used for verification and admission purposes. **DO NOT SIGN IN CAPITAL LETTERS.**

Sr. No. 25: **Recent passport size photograph:** In this space, paste (with gum) a recent, clear coloured passport size photograph (3.5 × 4.5 cm) showing front view of the face clearly without cap and without dark spectacles. Do not staple or pin the photograph. It should NOT be attested or signed by anybody. The photograph will be scanned and used Attendance Sheet. Also, it will be sent to the University where you might get admitted for verification and future records. Unclear photograph will invite rejection of the Application.

Sr. No. 26: **Write address (DO NOT WRITE YOUR NAME) in Capital letters** in the rectangular boxes and darken the circles in the corresponding columns.

Sr. No. 27: Write **PIN Code of your address** in rectangular boxes and darken the circles in corresponding columns.

Sr. No. 28: **Contact telephone number** of the candidate should be written in rectangular boxes. In case of a mobile phone, write its number.

Sr. No. 29: Write the **amount paid for the purchase of Information Bulletin** with application form in rectangular boxes write one digit in one box.

Sr. No. 30. **Details of purchase of Information Bulletin** should be given with seal of the Bank/University Sale Counter/Counter.

Declaration: The declaration should be signed by the candidate and the parent/guardian. Put date and place name also at specified points.

How to fill up the Admit Card

Both copies of Admit Card should be filled by the candidate and the attested photographs be pasted (with gum) in the space provided. Except for the Roll number and the Examination Venue in the Examination City Center, all the entries are to be filled up by the candidate him/herself. **The particulars supplied by the candidate in Admit Card should be got attested by the Principal of the School last attended or any Gazetted officer who should also sign at the specified place with Official Stamp.**

Acknowledgement Card

Candidate should write his/her postal address and Alphabetic Code Name of City of Exam Centre. Postage stamp of ₹ 6/- should be pasted on the acknowledgement card. These should be detached from Information Bulletin and sent along with the Application to the ICAR.

Special Instructions for the Candidate Downloading the Application Form

The Application Form number shall be given by COE on the receipt of duly filled form attached with a valid Bank Draft of requisite amount. In case the valid bank draft is not enclosed, form will be rejected and no correspondence will be entertained. Acknowledgement card, duly indicating the application number (generated after receipt of application form), shall be sent to the candidate latest by 10th March 2011. **Candidate should also write on the envelope that Application Form is downloaded and give the Bank Draft Number.** In case the Acknowledgement Card is not received or no information of Roll No. is available on ICAR website www.icar.org.in, they may contact the Controller of Examinations through telephone only after 25th March 2011. The details of Examination Centre in a particular city may be seen against the application serial no. or the date of birth on ICAR website or contact the Nodal Officer of the City Centre two days before the date of examination. Candidate may also contact the COE on any working between 10.00 A.M. to 5.00 P.M. on telephone in this regard.

The filled Application should be thoroughly re-checked for all the entries and their correctness. **It is essential to keep a photocopy of the filled Application Form and Bank Draft with you.** Without folding, put the Application, Admit Card (only one copy of Admit Card to be retained by the candidate) and Acknowledgement Card in the prescribed envelope. Post these by Registered or Speed Post. Keep the receipt of the Post Office with you for future records.

Address for submitting the Application, Admit Card and Acknowledgement Card (also given on the Envelope)

Controller of Examinations
Education Division
Indian Council of Agricultural Research
Room No. 226, Krishi Anusandhan Bhawan-II, Pusa
NEW DELHI-110 012

**TENTATIVE SCHEDULE FOR COUNSELING/PERSONAL APPEARANCE
FOR ADMISSION TO BACHELOR DEGREE COURSES IN AGRICULTURE AND
ALLIED SUBJECTS OTHER THAN VETERINARY SCIENCE - AIEEA-UG-2011**

Venue

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

Tentative Schedule for Personal Appearance/Counseling		Counseling For STREAM	9.00 AM to 1.00 PM Merit Rank	2.00 PM to 6.00 PM Merit Rank
15.06.2011	(Wednesday)	Maths Group (STREAM-B) (All UPS, PH, ST and SC) & (General + OBC upto 200)	STREAM-B (Math) (All UPS, PH, ST and SC)	STREAM-B (General + OBC) 1-200
16.06.2011	(Thursday)	Maths Group (STREAM-B) (General + OBC)	STREAM-B 201-400	STREAM-B 401 and onwards
17.06.2011	(Friday)	Biology/Agri. Group STREAM-A (UPS/PH/ST/SC)	STREAM-A (Bio/Agri) (All UPS/PH/ST). SC from rank 1-50	STREAM-A Rest all SC candidates
18.06.2011	(Saturday)	STREAM-A (General+OBC)	(General + OBC) 1-200	201-400
19.06.2011	(Sunday)	STREAM-A (General+OBC)	401-600	601-800
20.06.2011	(Monday)	STREAM-A (General+OBC)	801-1000	1001-1200
21.06.2011	(Tuesday)	STREAM-A (General+OBC)	1201-1400	1401-1600
22.06.2011	(Wednesday)	STREAM-A (General+OBC)	1601-1800	1801-2000
23.06.2011	(Thursday)	STREAM-A (General+OBC)	2001-2200	2201 and onwards

- The above Counseling schedule is tentative and is subject to change. Any change in the venue/schedule of counseling will be communicated to the qualified candidates in counseling call letter. The information will also be available on ICAR website: <http://www.icar.org.in> at the time of declaration of result.
- 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.
- 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.
- 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 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 and three years income tax returns of their parents shall be verified by the University authority before their admission (Original certificates have 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 counseling intimation 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.

- 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.

**16th ALL INDIA ENTRANCE EXAMINATION FOR ADMISSION TO
AGRICULTURE AND ALLIED SUBJECTS FOR THE SESSION 2011-2012
(SPECIMEN COPY OF OMR ANSWER SHEET)**

**ICAR
OMR ANSWER SHEET - SIDE 1**

1. FULL NAME (IN CAPITALS)																	
2. FATHER'S NAME (IN CAPITALS)																	
3. ROLL NO. <table border="1" style="width: 100%; height: 20px;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> </tr> </table>							4. CITY OF EXAM CENTRE (CODE NO.) <table border="1" style="width: 100%; height: 20px;"> <tr> <td style="width: 50%;"></td> <td style="width: 50%;"></td> </tr> </table>			5. QUESTION BOOKLET SERIAL NO. <table border="1" style="width: 100%; height: 20px;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> </tr> </table>							6. DATE OF EXAM 16TH APRIL, 2011

INSTRUCTIONS FOR FILLING SIDE - I

- I. Write all information under serial nos. 1-5 including your full name as it appears in the application form. Write in capital letters with a black ball-point pen only.
- II. Put your signature in column number 7 with a black ball-point pen only. If Answer Sheet is not signed, it would be rejected. Candidate's signature must tally with the signature in the application form. If the signature does not tally, the candidate will be disqualified, and will be declared failed.
- III. The invigilator will sign with black ball-point pen only.

INSTRUCTIONS FOR FILLING SIDE - II

- I. Information at serial No. 8-12 of SIDE 2 is to be filled by HB pencil/black ball-point pen only. Darken only one appropriate circle in each of the serial Nos. 8-12. For serial No. 13, darken correct answer with HB pencil/black ball-point pen only.
- II. Fill the circle completely and uniformly.
- III. Darken only ONE circle for each question as shown in the example below. If you darken more than one circles, your answer will be treated as wrong. Incorrect marking will also be taken as wrong answer.



Wrong



Wrong



Wrong



Correct

- IV. In case you have opted to answer with HB pencil and if you wish to change an answer, ERASE completely the already darkened Circle and then make a fresh mark. Candidates using black ball-point pen are not allowed to change the answer once shaded/darkened.
- V. Make marks only in the space provided. Please do not make any stray mark on the answer sheet.
- VI. Rough work MUST NOT be done on the answer sheet. Use your question booklet for this purpose.
- VII. Mark your answer only in the appropriate space against the number corresponding to the question you are answering.
- VIII. INSTRUCTIONS FOR MAKING ANSWERS:

Question 1 to 180 are multiple choice, darken only one circle out of the four.

Example for multiple choice type:-

Q. Chennai is the capital of:

A. Uttarakhand

B. Punjab

C. Chhattisgarh

D. Tamil Nadu

SIGNATURE OF THE CANDIDATE
BY BALL-POINT PEN ONLY

SIGNATURE OF THE INVIGILATOR
BY BALL-POINT PEN ONLY

7.

--

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ANSWER SHEET - SIDE 2

8. ROLL NUMBER

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

9. STREAM

BIO/AGRI (A)
MATHS (B)

10. SERIES

1
CHECK FROM YOUR QUESTION BOOKLET
2

11. OPTIONAL PAPER ATTEMPTED

BIO	<input type="radio"/>
MATHS	<input type="radio"/>
AGRIC	<input type="radio"/>

12. CATEGORY

SC	<input type="radio"/>
ST	<input type="radio"/>
PH	<input type="radio"/>
UPS	<input type="radio"/>
OBC	<input type="radio"/>
GEN	<input type="radio"/>

13. ANSWER COLUMNS

PHYSICS

COMPULSORY

CHEMISTRY

OPTIONAL
BIO / MATHS / AGRIC

001	A	B	C	D
002	A	B	C	D
003	A	B	C	D
004	A	B	C	D
005	A	B	C	D
006	A	B	C	D
007	A	B	C	D
008	A	B	C	D
009	A	B	C	D
010	A	B	C	D
011	A	B	C	D
012	A	B	C	D

013	A	B	C	D
014	A	B	C	D
015	A	B	C	D
016	A	B	C	D
017	A	B	C	D
018	A	B	C	D
019	A	B	C	D
020	A	B	C	D
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022	A	B	C	D
023	A	B	C	D
024	A	B	C	D

025	A	B	C	D
026	A	B	C	D
027	A	B	C	D
028	A	B	C	D
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031	A	B	C	D
032	A	B	C	D
033	A	B	C	D
034	A	B	C	D
035	A	B	C	D
036	A	B	C	D

037	A	B	C	D
038	A	B	C	D
039	A	B	C	D
040	A	B	C	D
041	A	B	C	D
042	A	B	C	D
043	A	B	C	D
044	A	B	C	D
045	A	B	C	D
046	A	B	C	D
047	A	B	C	D
048	A	B	C	D

049	A	B	C	D
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065	A	B	C	D
066	A	B	C	D
067	A	B	C	D
068	A	B	C	D
069	A	B	C	D
070	A	B	C	D
071	A	B	C	D
072	A	B	C	D

073	A	B	C	D
074	A	B	C	D
075	A	B	C	D
076	A	B	C	D
077	A	B	C	D
078	A	B	C	D
079	A	B	C	D
080	A	B	C	D
081	A	B	C	D
082	A	B	C	D
083	A	B	C	D
084	A	B	C	D

085	A	B	C	D
086	A	B	C	D
087	A	B	C	D
088	A	B	C	D
089	A	B	C	D
090	A	B	C	D
091	A	B	C	D
092	A	B	C	D
093	A	B	C	D
094	A	B	C	D
095	A	B	C	D
096	A	B	C	D

097	A	B	C	D
098	A	B	C	D
099	A	B	C	D
100	A	B	C	D
101	A	B	C	D
102	A	B	C	D
103	A	B	C	D
104	A	B	C	D
105	A	B	C	D
106	A	B	C	D
107	A	B	C	D
108	A	B	C	D

109	A	B	C	D
110	A	B	C	D
111	A	B	C	D
112	A	B	C	D
113	A	B	C	D
114	A	B	C	D
115	A	B	C	D
116	A	B	C	D
117	A	B	C	D
118	A	B	C	D
119	A	B	C	D
120	A	B	C	D

121	A	B	C	D
122	A	B	C	D
123	A	B	C	D
124	A	B	C	D
125	A	B	C	D
126	A	B	C	D
127	A	B	C	D
128	A	B	C	D
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177	A	B	C	D
178	A	B	C	D
179	A	B	C	D
180	A	B	C	D

COUNSELING PERFORMA FOR U.G. ADMISSION 2011-12
INDIAN COUNCIL OF AGRICULTURAL RESEARCH
KRISHI ANUSANDHAN BHAWAN-II, PUSA, NEW DELHI – 110 012

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..... 4. Date of Birth:..... 5. Nationality:

(Must not have been born before 01.09.1988 and after 01.09.1994)

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):

1..... 2..... 3.....

4..... 5..... 6.....

11. Category: Gen./ SC/ ST/ PH/ UPS) (Attach certificate in case of SC/ST/PH/ UPS)

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			
Agri./Home Science			
English			

% of MARKS in AGGREGATE%

Attached Documents:

- | | |
|---|---------|
| (1) High School Certificate/ Marks sheet showing Date of Birth: | Yes/ No |
| (2) Marks sheet and certificate of 10+2 | Yes/ No |
| (3) Transfer Certificate/ School Leaving Certificate | Yes/ No |
| (4) Character Certificate from the School last attended | Yes/ No |
| (5) Two Passport size photographs | Yes/ No |
| (6) Photocopies of above certificates | Yes/ No |
| (7) Original SC/ST/PH/ UPS domicile certificate/Central OBC Certificate | Yes/ No |

Documents : In order Not in order

(SIGNATURE OF CHECKING OFFICER)

(SIGNATURE OF THE CANDIDATE / REPRESENTATIVE)

FOR OFFICE USE ONLY

Admission granted : YES / NO

University Allotted:

Subject / Course Allotted :

Category under which admitted:

(SIGNATURES OF THE CHAIRMAN, COUNSELING COMMITTEE)

Part Admission Fee deposited ₹ 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

To be submitted at Waitlist Counter during Counseling session

AIEEA-UG-2011
INDIAN COUNCIL OF AGRICULTURAL RESEARCH
KRISHI ANUSANDHAN BHAWAN PUSA, NEW DELHI – 110 012
 (APPLICATION FOR WAITLIST REQUEST)

To

The Controller of Examinations
Education Division, ICAR, KAB-II
Pusa, New Delhi – 110 012

Sir,

I attended the counseling today i.e. on _____ but due to non-availability of the subject/ University of my choice, I have not opted for a seat during the Counseling. However, in case there is any consequential vacancy arising out of non-reporting of the allocated candidates at the following Universities in the subjects indicated below, I request that I may be considered by the University for admission as waitlist candidate as per my choices indicated below: (The choices indicated by me are final and I have opted these after careful consideration).

Choice No.	Subject Choice	Name of the University	Remarks if any
I			
II			
III			
IV			
V			
VI			

ParticularsName:

(As given in Application form)

Darken the StreamRoll No.: Agri / Bio. A. Rank Mathematics B. % of Marks in 10 +2

I also submit that in case I do not get admission as per my choice, I shall not have any claim for admission, and the Council may not entertain my correspondence.

SIGNATURE OF THE CANDIDATE**Name and Address**

Phone No.:

Mob. No. :

E-mail :

.....

S.No.	Name of University
1.	Anand Agri. Univ., Anand, Gujarat
2.	Assam Agri. Univ., Jorhat, Assam.
3.	ANGRAU, Hyderabad, AP
4.	AP Hort. Univ, Venkataramannagudem, AP
5.	Birsa Agri. Univ., Kanke, Ranchi, Jharkhand
6.	Bihar Agri. University, Sabour, Bhagalpur, Bihar
7.	BCKVV, Mohanpur, West Bengal
8.	Banaras Hindu Univ., Varanasi, UP
9.	Central Agri. University, Imphal, Manipur
10.	CCSHAU, Hisar, Haryana
11.	CSAUA&T, Kanpur, UP
12.	CSKHPKVV, Palampur, HP
13.	Dr. BSKKV, Dapoli, Maharashtra
14.	Dr. PDKV, Akola, Maharashtra
15.	Dr. YSPUH&F, Solan, HP
16.	GADVASU, Ludhiana, Punjab.
17.	GBPUA&T, Pantnagar, UK
18.	IGKVV, Raipur, Chhattisgarh
19.	JAU Junagadh, Gujarat
20.	JNKVV, Jabalpur, MP
21.	KAU, Thrissur, Kerala
22.	KVAFSU, Bidar, Karnataka
23.	MAU, Parbhani, Maharashtra
24.	MA&FSU, Nagpur, Maharashtra
25.	MPKV, Rahuri, Maharashtra
26.	MPUA&T, Udaipur, Rajasthan
27.	Nagaland University SASARD Medziphema
28.	NAU, Navsari, Gujarat
29.	NDRI, Karnal, Haryana
31.	NDUA&T, Faizabad, UP
30.	OUAT, Bhubaneswar, Orissa
31.	PAU, Ludhiana, Punjab
32.	PSBVB, Sriniketan, Viswa Bharati (W.B.)
33.	RAU, Pusa (Samastipur), Bihar
34.	RVSKVV, Gwalior, MP
35.	SHIATS, Allahabad, UP
36.	SKDAU, Sardarkrushinagar. Gujarat
37.	SKRAU, Bikaner, Rajasthan
38.	SKUAST, Jammu, J&K
39.	SKUAST(K), Srinagar, J&K
40.	SVBVUA&T, Meerut, UP

41.	SVV University, Tirupati, AP
42.	TNAU, Coimbatore, TN
43.	TNV&ASU, Chennai. TN
44.	UAS, Bangalore, Karnataka
45.	UAS, Dharwad, Karnataka
46.	UAS, Raichur, Karnataka
47.	UBKVV, Cooch Behar, West Bengal
48.	UHS, Bagalkot, Karnataka
49.	WBUAFS, Kolkata, West Bengal
STREAM – A (AGRICULTURE/ BIOLOGY)	
Subject Code	Subject Name
01	Agriculture
02	Horticulture
03	Fisheries
04	Forestry
05	Home Science
06	Sericulture
STREAM – B (MATHEMATICS)	
07	Agriculture Engineering
08	Dairy Technology
09	Food Science
10	Agricultural Marketing, Banking & Co-operation
11	Biotechnology

APPLICATION FORM



ICAR's 16th ALL INDIA ENTRANCE EXAMINATION FOR ADMISSION TO BACHELOR DEGREE PROGRAMMES AND AWARD OF NATIONAL TALENT SCHOLARSHIP (AIEEA-JG-2011) IN AGRICULTURE & ALLIED SUBJECTS OTHER THAN VETERINARY SCIENCES FOR THE ACADEMIC SESSION 2011-12

Please read the Information Bulletin carefully before filling up the Application Form. Use BLACK ball point pen to fill this side of form in CAPITAL letters

SIDE-1

Roll Number (to be filled by office)

Record No. (to be filled by office)

Application Form No.

Roll Number input field

Record No. input field

Application Form No. input field

1. CANDIDATE's NAME (in CAPITAL letters as given in Class X Certificate) (Do not write in cursive handwriting)

Name input grid

2. MOTHER's NAME (in CAPITAL letters)

Mother's Name input grid

3. FATHER's NAME (in CAPITAL letters as given in Class X Certificate)

Father's Name input grid

Grid for exam choices (4-6), domicile (7), subjects (8-9), stream (10), sex (11), and date of birth (12)

Grid for category (13), question paper (14), institution (16), code name (18), marks in XII (19), marks in class XII (21), nationality (15), and aggregate marks (22)

23. Write Name and complete mailing address in CAPITAL LETTERS and use BLACK BALL PEN

Name and address input fields

25. Paste one recent Passport Size Coloured photograph with gum/ Fevicol. Do not PIN or STAPLE the Photograph. Photograph size 3.5 x 4.5 cm Not to be attested

24. Signature of the candidate

ACKNOWLEDGEMENT CARD

Application No.

Dated:

This is to acknowledge the receipt of your application for 16th All India Entrance Examination for Admission to Under-graduate Degree Programmes and Award of National Talent Scholarships in Agriculture and Allied Subjects other than Veterinary Science for the Academic Session 2011–2012

Please quote your application number, centre code in all correspondence.

City of Exam Centre (Code Name)
(To be written by the Candidate)

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The Controller of Exams
Education Division
Indian Council of Agricultural Research
Room No. 226, Krishi Anusandhan Bhavan-II
Pusa, New Delhi 110 012

Postage stamp of ₹ 6.00
(to be pasted by the candidate)

AFFIX
POSTAGE
STAMP
OF ₹ 6.00

Address of the Candidate
(To be written by the Candidate)

To

PINCODE

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(To be submitted along with Application Form positively)

Application Form No.

**INDIAN COUNCIL OF AGRICULTURAL RESEARCH
Krishi Anusandhan Bhavan-II, Pusa, New Delhi-110012**

ADMIT CARD

OFFICE COPY

16TH ALL INDIA ENTRANCE EXAMINATION FOR ADMISSION TO BACHELOR DEGREE PROGRAMMES IN AGRICULTURE AND ALLIED SCIENCE SUBJECTS (OTHER THAN VETERINARY SCIENCES) AND AWARD OF NATIONAL TALENT SCHOLARSHIP FOR THE ACADEMIC SESSION 2011-12

Roll No:

STREAM:

Optional Subject:

Name and Address of Candidate

.....
.....
.....

Date of Exam: 16.04.2011
(Saturday)

Duration: 10:00 AM to 12:30 PM
(2½ hours)

Reporting Time: 09:30 AM

No Entry After: 10:30 AM

Cannot Leave Before: 12:30 PM

Name of the City of Examination :

Signature of the Candidate :

Venue :

Paste your recent coloured passport size photograph (3.5 x 4.5 cm)

To be attested by Principal/Gazetted Officer

Controller of Exams (Edn)

See reverse for important instructions

(To be retained by the Candidate)

Application Form No.

**INDIAN COUNCIL OF AGRICULTURAL RESEARCH
Krishi Anusandhan Bhavan-II, Pusa, New Delhi-110012**

ADMIT CARD

CANDIDATE COPY

16TH ALL INDIA ENTRANCE EXAMINATION FOR ADMISSION TO BACHELOR DEGREE PROGRAMMES IN AGRICULTURE AND ALLIED SCIENCE SUBJECTS (OTHER THAN VETERINARY SCIENCES) AND AWARD OF NATIONAL TALENT SCHOLARSHIP FOR THE ACADEMIC SESSION 2011-12

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See reverse for important instructions

INSTRUCTIONS FOR CANDIDATES

1. This 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 Admit Card is not permitted
 3. Particulars in the Admit Card must be checked carefully. Errors, if any, must be reported immediately to the Examination cell/Nodal Officer.
 4. No paper other than Admit Card should be brought inside the examination hall. Cell phones and any pre-written material are strictly prohibited in the examination hall
 5. Bring a recent attested photograph 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.
 6. Bring at least one HB pencil/black ball-point pen and good quality eraser for writing/markings/erasing responses.
 7. 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.
 8. Impersonation or attempt to impersonate would invite forfeiture of the candidature.
 9. Any attempt to remove pages from the Question Booklet or noting down questions will result in forfeiture of candidature.
 10. 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.
 11. To answer questions, shade/darken the corresponding circle/bubble which is most appropriate in your opinion.
 12. For each correct response, four marks will be awarded. For each incorrect response, 1 mark will be deducted. No mark will be deducted for questions not attempted. More than one answer will be taken as incorrect response.
 13. Admit Card must be preserved till the admission process at an Agriculture university is completed.
 14. Failure to comply with these instructions will entail expulsion/cancellation of candidature and may invite further legal action.
 15. The City of Examination shall not be changed as filled by the candidate in the Admit Card and Application Form. The Venue of Examination Centre and Roll No. could be seen on website www.icar.org.in or with the Nodal Officer of the same city (two days before the examination date)
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APPLICATION FORM
ICAR's 16th ALL INDIA ENTRANCE EXAMINATION FOR ADMISSION TO BACHELOR DEGREE
PROGRAMMES AND AWARD OF NATIONAL TALENT SCHOLARSHIP (AIEEA-UG-2011)
IN AGRICULTURE & ALLIED SUBJECTS OTHER THAN VETERINARY SCIENCES FOR THE
ACADEMIC SESSION 2011-12

U.G.

SIDE-1

Please read the Information Bulletin carefully before filling up the Application Form
 Use BLACK ball point pen to fill this side of form in CAPITAL letters

Roll Number (to be filled by office)	Record No. (to be filled by office)	Application Form No.

1. CANDIDATE's NAME (in CAPITAL letters as given in Class X Certificate) (Do not write in cursive handwriting)

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2. MOTHER's NAME (in CAPITAL letters)

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3. FATHER's NAME (in CAPITAL letters as given in Class X Certificate)

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4. Choice of city of Exam Centre (Code No.) <table style="width:100%; text-align:center;"> <tr><td style="border:1px solid black; width:20px; height:20px;"></td><td style="border:1px solid black; width:20px; height:20px;"></td></tr> <tr><td>0</td><td>0</td></tr><tr><td>1</td><td>1</td></tr><tr><td>2</td><td>2</td></tr><tr><td>3</td><td>3</td></tr><tr><td>4</td><td>4</td></tr><tr><td>5</td><td>5</td></tr><tr><td>6</td><td>6</td></tr><tr><td>7</td><td>7</td></tr><tr><td>8</td><td>8</td></tr><tr><td>9</td><td>9</td></tr> </table>			0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	5. School Board of Class XII <table style="width:100%; text-align:center;"> <tr><td style="border:1px solid black; width:20px; height:20px;"></td><td style="border:1px solid black; width:20px; height:20px;"></td></tr> <tr><td>0</td><td>0</td></tr><tr><td>1</td><td>1</td></tr><tr><td>2</td><td>2</td></tr><tr><td>3</td><td>3</td></tr><tr><td>4</td><td>4</td></tr><tr><td>5</td><td>5</td></tr><tr><td>6</td><td>6</td></tr><tr><td>7</td><td>7</td></tr><tr><td>8</td><td>8</td></tr><tr><td>9</td><td>9</td></tr> </table>			0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	6. State of Domicile (Code No.) <table style="width:100%; text-align:center;"> <tr><td style="border:1px solid black; width:20px; height:20px;"></td><td style="border:1px solid black; width:20px; height:20px;"></td></tr> <tr><td>0</td><td>0</td></tr><tr><td>1</td><td>1</td></tr><tr><td>2</td><td>2</td></tr><tr><td>3</td><td>3</td></tr><tr><td>4</td><td>4</td></tr><tr><td>5</td><td>5</td></tr><tr><td>6</td><td>6</td></tr><tr><td>7</td><td>7</td></tr><tr><td>8</td><td>8</td></tr><tr><td>9</td><td>9</td></tr> </table>			0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	7. State of domicile (Code Name) <table style="width:100%; text-align:center;"> <tr><td style="border:1px solid black; width:20px; height:20px;"></td><td style="border:1px solid black; width:20px; height:20px;"></td></tr> </table>			9. Subject Group for Exam Agri ① Bio. ② Maths ③	12. Date of Birth (DD/MM/YY) <table style="width:100%; text-align:center;"> <tr> <th>Date</th><th>Month</th><th>Year</th> </tr> <tr> <td style="border:1px solid black; width:20px; height:20px;"></td><td style="border:1px solid black; width:20px; height:20px;"></td><td style="border:1px solid black; width:20px; height:20px;"></td> </tr> <tr> <td>0</td><td>0</td><td>7</td><td>0</td> </tr> <tr> <td>1</td><td>1</td><td>8</td><td>1</td> </tr> <tr> <td>2</td><td>2</td><td>9</td><td>2</td> </tr> <tr> <td>3</td><td>3</td><td></td><td>3</td> </tr> <tr> <td></td><td>4</td><td></td><td>4</td> </tr> <tr> <td></td><td>5</td><td></td><td>5</td> </tr> <tr> <td></td><td>6</td><td></td><td>6</td> </tr> <tr> <td></td><td>7</td><td></td><td>7</td> </tr> <tr> <td></td><td>8</td><td></td><td>8</td> </tr> <tr> <td></td><td>9</td><td></td><td>9</td> </tr> </table>	Date	Month	Year				0	0	7	0	1	1	8	1	2	2	9	2	3	3		3		4		4		5		5		6		6		7		7		8		8		9		9
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8. Subjects taken in class XII (fill the applicable circle) Physics <input type="radio"/> Chemistry <input type="radio"/> Biology <input type="radio"/> Mathematics <input type="radio"/> Agriculture <input type="radio"/> Home Science <input type="radio"/> English <input type="radio"/>				10. Stream A. Agri/Bio. <input type="radio"/> B. Mathematics <input type="radio"/>	11. Sex Male ① Female ②																																																																																																																		

13. Category SC ① ST ② PH ③ UPS ④ OBC ⑤ GEN ⑥	14. Question paper medium English ① Hindi ②	16. Type of Institution of Class XII Government ① Private ② Others ③	18. Write alphabetic code name of city of Exam Centre 	21. Fill the % marks in class XII in <table style="width:100%; text-align:center;"> <tr> <th>PCA or PCH</th><th>PCB</th> </tr> <tr> <td style="border:1px solid black; width:20px; height:20px;"></td><td style="border:1px solid black; width:20px; height:20px;"></td> </tr> <tr> <td>·</td><td>·</td> </tr> <tr> <td style="border:1px solid black; width:20px; height:20px;"></td><td style="border:1px solid black; width:20px; height:20px;"></td> </tr> <tr> <th>PCM</th><th>PCMB</th> </tr> <tr> <td style="border:1px solid black; width:20px; height:20px;"></td><td style="border:1px solid black; width:20px; height:20px;"></td> </tr> <tr> <td>·</td><td>·</td> </tr> <tr> <td style="border:1px solid black; width:20px; height:20px;"></td><td style="border:1px solid black; width:20px; height:20px;"></td> </tr> </table>	PCA or PCH	PCB			·	·			PCM	PCMB			·	·		
PCA or PCH	PCB																			
·	·																			
PCM	PCMB																			
·	·																			
15. Place of Residence Village ① Town ② City ③			17. Nationality Indian ① Others ②	19. Write % marks obtained in English in XII 																
20. Year of passing/appearing Class XII 				22. Percentage of total aggregate marks obtained Class XII (if passed) <table style="width:100%; text-align:center;"> <tr> <th>Class X</th><th>Class XII</th> </tr> <tr> <td style="border:1px solid black; width:20px; height:20px;"></td><td style="border:1px solid black; width:20px; height:20px;"></td> </tr> <tr> <td>·</td><td>·</td> </tr> <tr> <td style="border:1px solid black; width:20px; height:20px;"></td><td style="border:1px solid black; width:20px; height:20px;"></td> </tr> </table>		Class X	Class XII			·	·									
Class X	Class XII																			
·	·																			

23. Write Name and complete mailing address in BLOCK LETTERS with BLACK BALL PEN

Name	<div style="border-bottom: 1px dashed black; height: 20px;"></div>
Address	<div style="border-bottom: 1px dashed black; height: 20px;"></div> <div style="border-bottom: 1px dashed black; height: 20px;"></div> <div style="border-bottom: 1px dashed black; height: 20px;"></div> <div style="border-bottom: 1px dashed black; height: 20px;"></div>
State.....	PIN

24. Signature of the Candidate

25.

Paste one recent Passport Size Coloured photograph with gum/ Fevicol

Do not PIN or STAPLE the Photograph

Photograph size 3.5 x 4.5 cm

Not to be attested



APPLICATION FORM

For SC/ST/PH Categories

ICAR's 16th ALL INDIA ENTRANCE EXAMINATION FOR ADMISSION TO BACHELOR DEGREE PROGRAMMES AND AWARD OF NATIONAL TALENT SCHOLARSHIP (AIEEA-UG-2011) IN AGRICULTURE & ALLIED SUBJECTS OTHER THAN VETERINARY SCIENCES FOR THE ACADEMIC SESSION 2011-12

Please read the Information Bulletin carefully before filling up the Application Form Use BLACK ball point pen to fill this side of form in CAPITAL letters

U.G.

SIDE-1

Roll Number (to be filled by office)

Record No. (to be filled by office)

Application Form No.

Roll Number input box

Record No. input box

Application Form No. input box

1. CANDIDATE's NAME (in CAPITAL letters as given in Class X Certificate) (Do not write in cursive handwriting)

Name input grid

2. MOTHER's NAME (in CAPITAL letters)

Mother's Name input grid

3. FATHER's NAME (in CAPITAL letters as given in Class X Certificate)

Father's Name input grid

4-12: Choice of city, School Board, State of Domicile, Subject Group, Date of Birth, Stream, Sex

13-22: Category, Question paper medium, Type of Institution, Alphabetic code name of city, % marks in English in XII, % marks in Class XII, Place of Residence, Nationality, Year of passing/appearing, % marks in Class X and XII

23. Write Name and complete mailing address in BLOCK LETTERS with BLACK BALL PEN

Name and Address input fields

24. Signature of the Candidate input box

25. Paste one recent Passport Size Coloured photograph with gum/ Fevicol. Do not PIN or STAPLE the Photograph. Photograph size 3.5 x 4.5 cm. Not to be attested.

[Empty box for U.G. Application Form No.]

26. ADDRESS (DO NOT WRITE YOUR NAME AND STATE. THESE WILL AUTOMATICALLY BE TAKEN UP FROM PRE-PAGE)

HOUSE NUMBER [Grid of circles]	APARTMENT/STREET/LANE/VILLAGE [Grid of circles]
--	---

POST OFFICE [Grid of circles]	32. DECLARATION I have fully read the information furnished by my son/daughter/ward and affirm that it is true and if it is found that the information is fraudulent, I am liable to criminal prosecution.
---	--

CITY/TOWN/DISTRICT [Grid of circles]	29. AMOUNT PAID FOR PURCHASE OF FORM Rs. [] [] [] []
31. DETAILS OF PURCHASE OF INFORMATION BULLETIN (tick mark appropriate box) (Use black ball pen): From Sale Counter [] By Post [] (a) By Demand Draft No. Dated..... Amount..... (b) By Cash Amount ₹	30. SEAL OF THE BANK/ SALE CENTRE/COUNTER [Empty space for seal]

27. PIN CODE [Grid of circles]	Name of the Sale Counter with Address..... Bank Branch Name with Address..... Signature of the Candidate in running hand (NOT IN CAPITAL LETTERS) Signature of Father/Mother/Guardian* (if father and mother not alive)
--	--

DIRECTIONS TO CANDIDATE

1. Day and Date of Examination : Saturday, the 16th April 2011
2. Duration : 2½ hrs (10.00 AM to 12.30 PM)
3. (a) Before mailing application, check that:
 - (i) Application has been signed at specified places on the Form.
 - (ii) Recent clear coloured photographs (passport size) have been pasted in the space earmarked.

(b) While submitting, application may be arranged in the following order.

 - (i) Self addressed and stamped Acknowledgement Card
 - (ii) Application Form, dully filled
 - (iii) One copy of Admit Card, duly filled and attested (other copy of admit card duly filled-in must be retained by the candidate). No dispatch of Admit Card shall be made.

After third week of March 2010, Admit Card information in respect of Roll Number allotted and the Venue of Examination assigned would be downloadable from the ICAR website: <http://www.icar.org.in> by providing the Application Number and/or Date of Birth. A copy of Admit card retained by the candidate is to be filled by the candidate him/herself and it should be attested by Head/Principal of the College last attended/Gazetted Officers. Candidate must preserve the Admit Card till allotment of seat at College/University.

4. Incomplete applications will be rejected.
5. Application is to be dispatched by Registered Post well in advance so as to reach on or before 15.02.2011 from non-remote areas whereas the date for remote areas is 22.02.2011.
6. Candidates are advised to retain a photocopy of the Application Form and Bank Draft 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 for dispatch through Registered Post or Speed Post. Without these papers, the candidate shall not be allowed to appear in the examination, in the absence of Admit Card.
7. Ragging in any form inside or outside the campuses is strictly prohibited.
8. 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.
9. Candidate is required to seek any information only as per scheduled date and time.

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

Contact Numbers:
Phone: 011-25843392, 25840746 (Direct)
011-25842270, 25841284
25842285 Extn. 1216 and 1226
Fax No.: 011-25840851
25843932