INFORMATION BULLETIN

WITH APPLICATION FORM

For U.G. Degree Programmes

ICAR's

15th 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 2010–2011

(AIEEA–UG–2010)

Examination Cell
Education Division
Indian Council of Agricultural Research
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 Examination
Indian Council of Agricultural Research
Krishi Anusandhan Bhavan-II
Pusa, New Delhi 110 012
Tel. No.:011-25843392 (O)
Fax No.:011-25840851, 2584 3932

THIS INFORMATION BULLETIN SHOULD NOT BE TREATED AS A LEGAL DOCUMENT

NOTE

1. Information Bulletin with Application Form can be obtained on cash payment of Rs. 400/- for General, OBC and UPS categories and Rs. 200/- for SC, ST & PH categories with additional Rs. 25/- per Information Bulletin as handling and service charges at sale counters of offices of Registrars of Agricultural Universities or Syndicate Bank branches. Also, it can be purchased through post by sending written request to the Controller of Exams (address given below) by sending Bank Draft of Rs. 450/- for General Category, OBC and UPS Categories, and Rs. 250/-for SC, ST and PH Categories.
2. Candidate must follow instructions strictly as contained in the Information Bulletin.
3. Candidate must note the number of his/her application form, City Code and Bank Draft number for use as reference for future correspondence. Candidates must retain photocopy of their filled Application Form.
4. (a) Please verify the following before mailing the application:
   (i) The Application Form has been signed at specified places by the candidate and the parent/guardian.
   (ii) Clear recent photograph (passport size) has been duly pasted at the specified places.
   (iii) Identity Verification Card is duly filled.

   (b) Please arrange application in the following order, put this in the envelope and send by Registered Post/Speed Post
   (i) Self addressed Acknowledgement card of the candidate
   (ii) Application Form, duly filled
   (iii) Identity Verification Card, duly filled
5. In case the Admit Card is not received by 10 April, 2010, the applicant should download the Admit card from ICAR website http://www.icar.org.in, then paste his/her recent photograph, get it attested from Principal of the school or any senior government officer and bring it to the Centre. In case still there is problem, then contact the **ADG (HRD) / Controller of Examination (Education Division), Indian Council of Agricultural Research, Examination Cell, Room No. 226, Krishi Anusandhan Bhavan-II, Pusa, New Delhi 110 012** with details of the Post Office, Date of Despatch, postal registration receipt and Application Form Number. Candidate must preserve the Admit Card till allotment of seat in College/University/Institution.
6. Incomplete application form will be summarily rejected.
7. Application Forms are to be despatched by Registered Post or Speed Post well in advance so as to reach by 16 February, 2010 and from Remote Areas by 23 February, 2010 to:

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

Contact Phone Nos. (STD Code 011)
2584 2270, 25841284, 25842285 Extn. 1216 & 1226
25843392 (Direct)
25840851, 25843932 (Fax)

INFORMATION BULLETIN

ICAR's

15th ALL INDIA ENTRANCE EXAMINATION FOR ADMISSION TO 15% SEATS IN UNDER-GRADUATE 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 N.D.R.I. FOR THE ACADEMIC SESSION 2010-11

(AIEEA-UG-2010)

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

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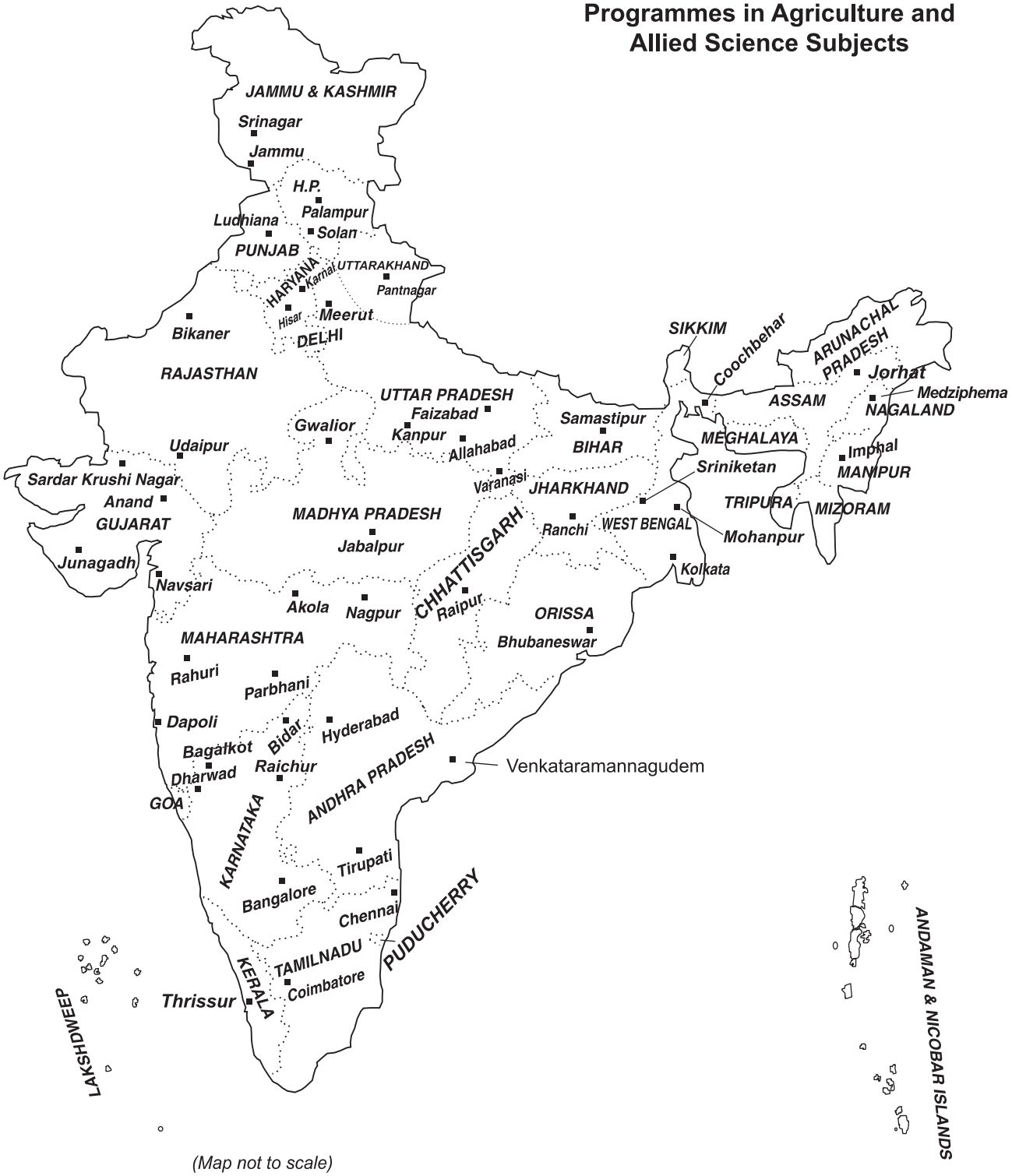
INDIA

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 Sector still directly supports 67% of the population of the country and contributes about 18% to the GDP. The science and art of agriculture has many references in the vedic literature. Trained human resource has been the key factor behind the Green Revolution that has led India to become self reliant in food and 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 the ICAR and the agricultural universities in planning, designing and executing the educational programmes.

In the year 2009, there were 49 Agricultural Universities in the country under ICAR–AU System awarding undergraduate degrees in agriculture and allied science subjects. These include State Agricultural Universities (43), Central Universities having Agriculture faculty (3), Central Agricultural University (1), Sam Higginbottom Institute of Agriculture, Technology & Sciences (formerly Allahabad Agricultural Institute) Allahabad (AAIDU) (1) and ICAR Institute with the status of Deemed-to-be-University (1). Agricultural education is also imparted in some traditional universities of the country. In all, these produced invaluable human resource in agricultural sciences comprising about 15,000 graduates, 8,000 Masters, about 1000 Ph.Ds. The degrees of 4 years duration awarded by these Universities have been in the subjects of: (1) Agriculture, (2) Horticulture, (3) Forestry, (4) Fishery, (5) Home Science, (6) Sericulture, (7) Agricultural Engineering, (8) Dairy Technology, (9) Food Science and Technology (10) Agricultural Marketing, Banking & Cooperation, (11) Biotechnology and (12) Commercial Agriculture and Business Management.

Nearly half of the graduates from agricultural sciences go for higher education in Indian Universities and abroad. These include master's degree in about 91 subjects of contemporary interests. Degrees 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) Developmental 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 agricultural 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. Quality of teaching is also stressed through continuous national and international training programmes for the faculty. The educational satellite named EDUSAT is to be soon utilized for agricultural education by providing study centres with two-way audio and video facilities for interactive learning in each University. This is being planned with the help of ISRO and IGNOU. For quality assurance, educational programmes of the Universities are periodically accredited by the ICAR.

In summary, Agricultural Education could be termed as one of the most relevant education in the country for growth and sustainable development. ICAR and associated Universities congratulate you for choosing the area of agricultural sciences for your education and career and wish all the success in your life.

ICAR's 15th ALL INDIA ENTRANCE EXAMINATION FOR ADMISSION (AIEEA-UG-2010) TO 15% SEATS IN UNDER-GRADUATE 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 N.D.R.I. FOR THE ACADEMIC SESSION 2010-11

1. INTRODUCTION

Indian Council of Agricultural Research(ICAR), New Delhi plans to conduct ICAR's 15th All India Entrance Examination for admissions to under-graduate degree programmes in agriculture and allied science subjects other than veterinary science for filling 15% of the total number of seats in Agricultural Universities comprising of State Agricultural Universities(SAU), Central Agricultural University(CAU), Imphal, Banaras Hindu University(BHU), Varanasi, Viswa Bharati (PSB), Sriniketan, Nagaland University (SASARD), Medziphema, Sam Higginbottom Institute of Agriculture, Technology & Sciences (formerly Allahabad Agricultural Institute) Allahabad (AAIDU), and 100% seats in Dairy Technology at National Dairy Research Institute(NDRI), Karnal. There will be no direct nomination of any candidate through the Council for admission in any under-graduate degree programme.

2. SCHEME FOR THE CONDUCT OF EXAMINATION

2.1 DATE OF EXAMINATION
SATURDAY, the 17 April 2010

2.2 SCHEME OF EXAMINATION

(i) The examination shall comprise of one paper consisting of Physics, Chemistry and Agriculture/Biology for '**STREAM-A'** and Physics, Chemistry and Mathematics for '**STREAM-B**'.

STREAM–A (AGRICULTURE/BIOLOGY): Candidates under this stream can seek admission for undergraduate degree programmes in **Agriculture, Horticulture, Forestry, Fisheries, Home Science, Sericulture, *Biotechnology and Food Science*.**

STREAM-B (MATHEMATICS): Candidates under this stream can seek admission in **Agricultural Engineering, Dairy Technology, *Biotechnology, Food Science*, Agricultural Marketing, Banking & Co-operation.** They can also opt for admission to Forestry in limited SAUs. However for Forestry and Food Science Technology, a candidate should have taken Biology also as one of the subject in 10 + 2 examination, as per conditions of some of the Universities.

(ii) Duration of Examination: 2½ hours, **Time 10.00 A.M. to 12:30 P.M.**

(iii) Number of Questions and Marks: The paper shall have 180 objective type questions and shall carry a maximum of 720 marks. Each question will carry four marks.

There shall be negative marking for wrong answers, as explained under item 3.6. Answer without any response will not be awarded any mark.

(iv) The bilingual question paper in **ENGLISH and HINDI** will be supplied**.** The candidate will be required to find out the correct answer and mark in the answer sheet by shading the corresponding circle against the serial number of the question with HB pencil (or with black ball-point pen at their choice). In case of any variation in English and Hindi versions of question(s), English version will be taken as correct.

(v) **Syllabus for the Examination**
(Please see Annexure – I).

(vi) **Course programme for Admission:** There are 11 major courses in which admission to undergraduate degree course is provided. For the purpose of Entrance Examination, these courses are categorized into two Streams viz. **Stream-A: Agriculture/Biology** and **Stream-B: Mathematics**. The candidate has a right to exercise his/her option only for one Stream at the time of submitting the application form. The option once exercised will not be changed subsequently.

The Stream-wise courses, Code Number and Eligibility requirements are given below:

Subject	Code No.	Subjects which the candidate must have passed in 10+2 Examination	Subjects to be attempted in the Entrance Examination
STREAM – A (AGRICULTURE/BIOLOGY)			
1. Agriculture	01	PCB/PCMB/PCA/ Inter (Agri.) with PC	PCB/PCA
2. Horticulture	02	PCB/PCMB/PCA/ Inter (Agri.) with PC	PCB/PCA
3. Fisheries Science	03	PCB/PCMB/PCA/ Inter (Agri.) with PC	PCB/PCA
4. Forestry	04	PCB/PCMB	PCB
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
STREAM – B (MATHEMATICS)			
7. Agricultural Engineering	07	PCM/PCMB	PCM
8. Dairy Technology	08	PCM/PCMB	PCM
9. Food Science & Technology	09	PCM/PCMB	PCM
10. Agricultural Marketing, Banking & Co-operation	10	PCMB/PCM	PCM

Note: A candidate from **Stream–B** can also exercise option for admission to Forestry in few Universities provided he/she fulfils the eligibility criteria of the University. There are few seats in Food Science, Biotechnology and Commercial Agriculture & Business Management for both the Streams A and B.

P = PHYSICS **C** = CHEMISTRY
B = BIOLOGY **M** = MATHEMATICS
A = AGRICULTURE **H** = HOME SCIENCE

NOTE: Though ICAR has been making efforts to have uniform criteria and eligibility for admissions in all the Agricultural Universities, however, some of the Universities due to various reasons have different conditions of eligibility. In those cases, the conditions laid down by the Universities will be followed for granting admissions.

The subject-wise tentative number of seats under ICAR quota in Agricultural Universities for admission in different subjects for the academic session 2010–11 is given in **Annexure–II.** Exact number would be known by the counselling date**.**

2.3 EXAMINATION CENTRES

(i) A list of Cities of Examination Centres with Code No. and alphabetic Code Name is given in **Annexure–VIII.**

(ii) The candidate shall fill in the application form Code No. and Code Name of the City of Exam Centre from where he/she would be appearing for the Examination.

(iii) **Under no circumstances the City of Exam Centre once opted/allotted shall be changed by the Council.**

2.4 ELIGIBILITY

2.4.1 Age and Nationality

Indian Nationals of atleast 17 years of age but not more than 23 years **as on 31.12.2010 (i.e. must not have been born before 01.01.1988 and after 01.01.1994)** are eligible to apply for the examination. No relaxation of age will be allowed to the candidate of any category.

2.4.2 Qualification

2.4.2.1 (i) 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: 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.

*For admission in limited Universities.

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

(b) Candidate with a compartment/ supplementary in any of the subjects will not be eligible.

2.4.2.2 Candidate appearing in the qualifying examination, enumerated above, can also

apply but he/she shall submit the evidence of having satisfied the conditions as in 2.4.2.1(i) & (ii) latest by the day of Counselling otherwise his/her candidature will be cancelled.

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

Note: Candidate must ensure that he/she fulfills the eligibility criteria while submitting the application.

2.5 CONDUCT OF EXAMINATION

(i) **The examination will be conducted at various Centres on Saturday, the 17th April 2010 between 10:00–12:30 hrs.**

(ii) The Examination Hall will be opened 30 minutes before the commencement of the examination.

(iii) Candidate who does not possess Admit Card issued by the Council or downloaded from the ICAR website and duly attested, will not be admitted to the Examination Hall under any circumstances.

(iv) Candidate who comes after 30 minutes of the commencement of the examination will not be permitted to appear in the examination.

(v) Calculators, slide-rules, electronic watches with facilities of calculators, mobile phones, etc. are not allowed inside the examination hall.

(vi) No candidate shall be allowed to leave the examination hall until the completion of the examination and related formalities. He/she will hand over Question Booklet, OMR Answer Sheet to the Invigilators before leaving the hall.

(vii) During the conduct of examination, candidate may be required to fill up a verification form.

(viii) Candidates are advised to bring with them a hard card-board on which nothing should be written and their own black ball-point pens, HB pencils, sharpener and erasers of good quality.

2.6 ANNOUNCEMENTS/DECLARATION OF RESULT

All announcements related to the conduct of entrance examination including, issue of examination notification, admit cards, examination result, call letter for counselling etc. would be posted regularly on the ICAR website **http://www.icar.org.in.** The candidates are advised to be vigilant about the announcements on the ICAR website. The result of the AIEEA-UG-2010 is likely to be declared during the third week of **May 2010.** 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.

2.7 RE-CHECKING OR RE-EVALUATION OF ANSWER SHEETS

The answer sheets of the entrance examination are in the format of OMR sheets, which are evaluated through computerized processing. Therefore, there is no provision of re-checking/re-evaluation of OMR answer sheets.

2.8 LEGAL JURISDICTION

All disputes pertaining to the conduct of Examination and any other issue relating to All India Entrance Examination conducted by the Education Division (ICAR), shall fall within the jurisdiction of Delhi Court only.

3. GENERAL INSTRUCTIONS FOR THE CANDIDATES

3.1 MODE OF THE EXAMINATION

(i) The examination shall consist of only one paper consisting of Physics, Chemistry and Agriculture/Biology for '**Stream–A**' and Physics, Chemistry & Mathematics for '**Stream–B**'. There will be 180 questions in all to be answered, 60 in Physics, 60 in Chemistry and 60 in Agriculture/Biology/ Mathematics.

(ii) The questions will be of objective type with multiple choices and the candidates will be provided a Question Booklet bearing **Serial number** and **Series number** as well as an OMR answer sheet. The Question Booklet will contain 180 Questions serially numbered from 001 to 180. Each question will be followed by four options/answers marked (A), (B), (C) & (D). Out of the four answers, only one will be the correct/most appropriate answer.

3.2 THE ANSWER SHEET

The OMR answer sheet will be provided along with the Question Booklet.

(i) The specimen copy of the OMR Answer sheet is given at **Annexure–IV**. Candidates are advised to go through it 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) The OMR Answer Sheet used will be of special type which will be scanned on Optical Scanner. There will be two sides of the OMR Answer Sheet.

WRITING OF ANSWERS: Each answer column corresponds to the serial number of question given in the Question Booklet. With each column, there are four circles which correspond to the four answers, one of which is correct /most appropriate. There will be four alternative answers for each of the questions numbering 001 to 180. The candidate will indicate his/her answer to the question by darkening the appropriate circle completely with HB Pencil. In case the candidate desires to indicate the correct answer by shading with a black ball-point pen rather than HB pencil, he/she is allowed to do so provided he/she does not change the answer later. 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 darken the circle B as shown below:

Q. No. 004 Ⓐ ● Ⓒ Ⓓ

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

(iii) **The candidate must ensure that the answer sheet is not folded. He/she should not make any stray marks on it as it may discredit him/her during optical scanning.**

3.3 BLACK BALL-POINT PENS, ERASER AND PENCILS

The candidate should bring black ball-point pen, eraser and HB pencil (any other pencil like HH, HHH etc. should not be used).

3.4 CHANGING AN ANSWER

The candidate may opt to answer on the OMR Answer sheet by darkening the appropriate circle 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 the option to change the answer by completely erasing the pencil-mark, and then darkening the appropriate circle with HB pencil. Candidate must also ensure that he/she does not leave any visible mark after erasing otherwise the answer will be treated as wrong and it will invite negative marking.

3.5 WRONG/INCORRECT WAY OF MARKING

If more than one circle is darkened or if the answer is marked in any manner other than the one as shown above, it shall be treated as wrong way of marking. A lightly or faintly darkened or otherwise marked circle will be treated as a wrong method of marking which will be rejected by the Optical Scanner. It will also invite negative marking.

3.6 SCORING, NEGATIVE MARKING

Each question carries 4 marks. For each correct answer the candidate will get 4 marks. **For each incorrect answer one mark will be deducted from the total score**. No deduction from the total score will however, be made if no answer is indicated for a question in the answer sheet. The candidates are advised not to attempt such questions in the OMR answer sheet, if they are not sure of the correct answer. More than one answer indicated against a question will be deemed as incorrect answer and will be negatively marked.

3.7 INSTRUCTIONS FOR FILLING OF OMR ANSWER SHEET

Side - I (To be filled by black ball-point pen only)

Item No. 1–4 : Write full name, father's name, roll number and code no. of city of Exam Centre in column 1 to 4 exactly as given in the admit card.

Item No. 5 : Fill-in Question Booklet serial number as given on the Question Booklet.

Item No. 7 : Signature in full as done in application form.

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

Item No. 8 : Fill in roll number with one digit in each box provided and darken the number in the vertical column below.

Item No. 9 : Darken the circle of **Stream-A or Stream-B** as the case may be.
(**A – Agriculture or Biology group**),
(**B – Mathematics group**).

Item No. 10 : Darken the circle of **Series-1** or **Series-2** as provided in the box at right corner of the Question Booklet.

Item No. 11 : Darken the circle of the **Optional Paper attempted** as the case may be.

Item No. 12 : Darken the circle
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

N.B.: In the event of the leaving column 12 of OMR Answer sheet blank, the candidate would be evaluated under General Category. In case columns 9 & 10 are/is left blank or filled wrongly, the candidate would expose himself/herself to risk of evaluation under wrong stream/series. Candidate himself/herself will be responsible for this. It is the responsibility of the candidate to get the OMR Answer sheet signed by the Invigilator as it is a must for evaluation.

3.8 ROUGH WORK

The candidate will not do any rough work or writing work on the OMR answer sheet. All rough work is to be done in the Question Booklet in the pages meant for rough work.

3.9 PROCEDURE TO BE FOLLOWED IN THE EXAMINATION HALL

(i) Five minutes before the commencement of the examination, each candidate will be given Question Booklet and the OMR Answer Sheet.

(ii) Immediately on receipt of the Question Booklet the candidate will fill-in the required particulars on the cover page of the Question Booklet with BLACK BALL POINT PEN ONLY. He/She will not open the Question Booklet, until asked to do so by the Invigilator.

(iii) On OMR answer sheet the candidate will write particulars with BLACK BALL POINT PEN on SIDE-I and with HB Pencil or black ball-point pen as the case may be, on the SIDE–2 (as explained earlier).

(iv) The examination will start strictly on time and an announcement to this effect will be made by the Invigilator.

(v) After completing the examination and before handing over the Question Booklet and the OMR Answer Sheet, the candidate should check again that all the particulars required in the Question Booklet and the OMR Answer Sheet have been correctly written. Ensure that the Roll Number, Subject Stream, Series of Question Booklet, optional paper attempted and Reservation Category are correctly written in the OMR Answer Sheet and the Answer Sheet is duly signed by the invigilator and the candidate at appropriate places.

(vi) During the conduct of examination, a candidate can be asked to fill up a verification form to be supplied by the Invigilator.

(vii) A signal will be given at the beginning of the examination and at half time. A signal will also be given before the closing time when the candidate must stop marking the answers.

(viii) Any attempt of using unfair means by the candidate during AIEEA-UG-2010 examination process will liable him/her to be disqualified and his/her candidature for the examination would be forfeited.

(viii) Candidate should ensure before leaving the Examination Hall that he/she has handed over the OMR Answer Sheet and Question Booklet to the invigilator on duty. In case, the candidate does not hand over the OMR Answer Sheet with Question Booklet and takes away the same with him/her, this shall amount to use of unfair means and he/she will be declared failed besides inviting further disciplinary action.

3.10 CAUTION FOR REMOVAL OF PAGE(S) FROM QUESTION BOOKLET

Before start of writing the answers the candidate must check and ensure that the Question Booklet

is numbered and contains number of pages as written on the top of the first page. If any discrepancy in the question booklet is detected by the candidate, he/she should immediately report to the Invigilator concerned and get the booklet changed. 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, he/she will be booked under use of unfair means and shall be liable for action.

4.0 METHOD OF SELECTION AND ADMISSION THROUGH COUNSELLING

(i) The candidate declared/notified qualified (based on merit-rank) to be called for counselling shall report for Counselling as per the Counselling schedule provided in **Annexure–XII.**

(ii) In the event of candidates getting equal marks in the Entrance examination, relative merit will be determined on the basis of marks obtained in the compulsory subjects (**Physics and Chemistry**) in AIEEA examination. In the event of tie again, a candidate higher in age would be rated higher in merit.

(iii) The candidate will have to fill a prescribed counselling proforma (specimen at **ANNEXURE–XIV**) at the time of Counselling. He/she shall have to give his/her options for choice of the subject and choice of the University in order of preference. No change would be allowed thereafter.

(iv) In case, all seats in the University of Choice as opted in counselling proforma are exhausted, he/she shall be allotted to any University wherever the seat is available. The candidate shall have no claim for change of University thereafter.

The Council will allocate the University while the choice of College (within the University) shall be regulated by the University itself. Candidate may not approach the Council for any specific College within the University allotted.

(v) The candidate once admitted in a degree programme as per his/her merit and availability of seat at the time of Counselling, will not stake claim for change of subject/University later on after counselling is over.

The Candidate, who has attended the Counselling, but due to non availability of subject/University of his/her choice, has not accepted admission during the counselling but desires admission later on out of any consequential vacancy, should submit the request in the **wait-list proforma** (specimen copy at annexure–XV) to be given at the time of counselling. The request will be considered as per his/her choice, provided vacancy is available in the subject/university within the time limit of student-registration at that university for admission. If the candidate does not submit such a request (wait-list proforma) at the time of counselling, it will be presumed that he/she is no more interested in admission and no request received thereafter will be considered. Please note that the candidates who have been allotted a seat during counselling are not allowed to opt for waitlist vacancies. Candidate should further note that mere submission of wait-list proforma request does not guarantee admission unless seats fall vacant of his/her choice of university/subject within the time schedule for admission.

(vi) **Against total number of seats available under ICAR quota for a particular degree programme in a University, not more than 40% of the seats under ICAR quota from one State would be allocated to any one University.**

(vii) Candidate will forfeit his/her claim for admission if he/she does not report for Counselling (either Self or any Authorized representative). Candidate reporting late for counselling on the Counselling date and subject to valid reason for late reporting, may be considered for admission out of the Subject & University available at his/her rank at the time of his/her Counselling. He/she will lose any claim for seat at his/her rank due to late reporting.

(viii) Candidate not fulfilling the eligibility condition(s) at the time of Counselling will not be considered for seat allocation.

(ix) The candidate or authorized representative called for counselling (personal appearance) should bring along with them counselling intimation issued by ICAR, Admit Card, All Original Certificates and Marks sheets, SC/ST/OBC/PH/UPS Category Certificate in original for verification and submission. Cash of Rs. 2000/- (Rupees Two Thousand only) should also be brought as part fee to be deposited with the Registrar of the allotted university. Authorized representative should also bring the duly filled-in Authority Letter duly attested by competent authority (Annexure-V). One individual shall not act as representative of more than 2 candidates.

(x) If any candidate fails to deposit fee and original certificates, the admission would not be granted

and he/she would forfeit his/her claim for admission.

(xi) The fact that a candidate or his/her representative has appeared for Counselling, will not ensure admission unless a seat at the rank of the candidate for Counselling is available and he/she meets eligibility requirements of the University opted for admission.

(xii) No intimation about non-selection or marks obtained in Entrance Examination will be sent and no correspondence in this regard will be entertained.

(xiii) In the matter of allotment/admission of candidates to respective Universities/Institutions, the decision of the Council shall be final.

(xiv) Candidates are advised to preserve their admit cards till their admission in Agricultural Universities/ Institutes is over.

(xv) Admission of those candidates who do not fulfill the eligibility criteria by the last date of Counselling, will be rejected.

(xvi) In case if any forged documents is submitted, admission will be cancelled and legal action will be taken.

(xvii) All candidates or their authorized representatives reporting for Counselling will be required to submit original certificates and mark sheets to the Registrar of the allotted University, otherwise admission shall 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.

(xviii) The ICAR quota seats, if remaining vacant even after utilizing the ICAR waitlist candidates, shall be released to the Agricultural University/Institute concerned for filling up at their level and as per their procedure for selection/admission.

5.0 OPTION FOR ALLOTMENT OF UNIVERSITIES/ INSTITUTES

Candidates are not required to give any option for University/Institute/subjects at the time of filling up the application form. The allotment of seats in the Universities will be made through personal appearance (at the time of Counselling) as per the choice made by the candidate from amongst the seats available at his/her Rank within the Stream in which he/she appeared for Entrance Examination.

5.1 TRANSFER/ MIGRATION/ CHANGE OF UNIVERSITIES/ INSTITUTES/SUBJECTS

In case a candidate has been allotted any university and subject at the time of counselling and the same has been accepted by the candidate, any request for change/transfer of subject/university thereafter, will not be entertained by the council. Once a candidate joins a University, he/she will be a bonafide student of that university and therefore would be governed by all the academic rules/regulations including migration of that university. Council will not entertain any request from the candidates in any matter thereafter.

6.0 TIME FOR JOINING THE COURSE

The selected candidates shall have to report to the Agricultural Universities/Institutes on the date notified by the University. The candidates, thus, are advised to be in touch with the allotted University. They should enquire about the date of joining at the university from the university representative during the counselling.

Candidates selected for admission through the All India Entrance Examination for Admission (AIEEA-UG), conducted by ICAR, may seek admission only during the session for which the Examination is conducted. He/ she cannot claim for seat allotment in other sessions/ years based on this AIEEA-UG examination. They will not be entitled for admission in subsequent sessions based on this year's Examination.

7.0 RESERVATION OF SEATS

7.1 SCHEDULED CASTE/SCHEDULED TRIBE/ OTHER BACKWARD CLASSES/ PHYSICALLY HANDICAPPED

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 among is interhcangeable i.e. if sufficient number of candidates are not available to fill up the seats reserved for ST candidates, these can be filled up from among suitable SC candidates and Vice-versa among the subject as per merit in the examination. The SC/ST certificate in prescribed form (Annexure VI) is required for verification. 3% seats are also reserved in different subjects for Physically Handicapped candidates suffering from low vision, hearing impairment,

locomotor disability or cerebral palsy with appropriate medical certificate and found suitable by the Counselling Committee. 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 counselling. The criteria for assessing the degree of handicap would be variable from faculty to faculty. The decision of the University allotted will be final in this regard. Reservation for candidates belonging to OBC category will be given at the Central Educational Institutions namely, NDRI, BHU, CAU and Viswa Bharati (PSB) Universities as per Government of India directives (specimen copy of central OBC certificate along with declaration is given at annexure VII) and as per seat positions communicated by these universities before counselling.

7.2 RESERVATION FOR REMOTE AND UNDER PRIVILEGED STATES/UT (UPS)

2% Seats for each disciplines would be reserved for the candidates of the remote and under privileged States/UTs (UPS) namely Andaman and Nicobar Islands, Arunachal Pradesh, Dadra and Nagar Haveli, Daman & Diu, Goa, Lakshdweep, Meghalaya, Mizoram, Nagaland, Manipur, Sikkim and Tripura where educational facilities in Agriculture and Allied Science subjects do not exist. However these seats will be filled by merit amongst the qualified candidates from the State concerned those who qualify this examination. In case no qualified candidates are available in these categories, the vacant seats will be filled from general merit. Candidates from UPS will have to produce domicile certificate issued by the competent Authority at the time of counselling.

7.3 PROCEDURE FOR FILLING OF N.D.R.I. (DAIRY TECH.) SEATS

All the 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. However, not more than 40% seats will be filled from one state in each category. Reservation for OBC will be as per Government of India directives applicable at the time of counselling.

8.0 NATIONAL TALENT SCHOLARSHIP (NTS)

The National Talent Scholarship @ Rs. 1,000/- per month shall be awarded to all the admitted candidates subject to the following conditions:

(i) He/she joins any Agricultural University that does not fall within the domicile state of the candidate.

(ii) The candidate, who gets admitted against any vacant seat later on based on the wait-list as per his/her request, will not be eligible for NTS even though he/she may be having higher merit-rank.

(iii) In case the candidate changes the University or subject, his/her NTS will be cancelled.

(iv) The NTS students are expected to maintain good academic performance (as decided by the university), for continuance of their scholarship later on.

ANNEXURE-I

SYLLABUS FOR ICAR'S ALL INDIA ENTRANCE EXAMINATION FOR ADMISSIONS TO BACHELOR DEGREES (AIEEA-UG-2010)

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 conversation 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 polarisation, 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 theory, concept of hybridization, involving s, p and d orbitals and shapes of some simple molecules, molecular orbital; theory of homo nuclear 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 DU and DH, 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 nonspontaneous 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, CaCO3 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 alkalies.

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 K2Cr2O7 and KMnO4.

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, electrophillic 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), monosaccahrides (glucose and fructose), oligosaccharides (sucrose, lactose, maltose), polysaccharides (starch, cellulose, glycogen); importance.

Proteins - Elementary idea of ?á-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 homeostatsis; 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 Unity 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-archeabacteria - life in extreme environments; Bacteria, Actinomycetes, Cyanobacteria. Examples & illustration of autotrophic and heterotrophic life; mineralizers-nitrogen fixers; Monera in cycling matter; symbiotic forms; disease producers. Kingdom Protista-Eukarytoic 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, protozons; 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 physia. Salient features with reference to habitat and example of phylumporifera, coelenterata, helminthis, annelids, mollusca, arthopoda, 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, man made ecosystem-Agroecosystem. 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 osomoregulation. Ammonotelism, Ureotelism, urecotelism, excertion 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 differentation.

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 organizms and evidences of evolution: fossil records including geological scale, Morphological evidence - hemology, vestigeal 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: Palcontological evidence, man's place among mammals. Brief idea of Dryopithecus, Australopithecus, *Homo erectus*, *H. neanderthlensis*, Cromagnon man and *Homo sapiens*. Human chromosomes, similarity in different racial groups. Comparison with chromosomes of non-human primates to indicate common origin; Cultural vs. biological evolution.

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

Unit : 9 Application of Biology

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

Use of pesticides: advantages and hazards. Biological methods of pest control. Crops today. Current concerns, gene pools and genetic conservation. Underutilized crops with potential uses of oilseeds, medicines, beverages, spices, fodder, New crops-Leucaena (Subabul), Jojoba, Guayule, winged bean, etc. Biofertilizers - green manure, crop residues and nitrogen fixation (symbiotic, non symbiotic). Applications of tissue culture and genetic engineering in crops. Domestication and introduction of animals. Livestock, poultry, fisheries (fresh water, marine, aquaculture). Improvement of animals: principles of animal breeding. Major animal diseases and their control. Insects and their products (silk, honey, wax and lac). Bioenergy-biomass, wood (combustion; gasification, ethanol). Cow dung cakes, gobar gas, plants as sources of hydrocarbons for producing petroleum, ethanol from starch and lignocellulose. Biotechnology, application in health and agriculture, genetically modified (GM) organisms, bio-safety issues. A brief historical account-manufacture of cheese. yoghurt, alcohol, yeast, vitamins, organic acids, antibiotics, steroids, dextrins. Scaling up laboratory findings to Industrial production, sewage treatment. Production of insulin, human growth hormones, interferon. Communicable diseases including STD and diseases spread through 'blood transfusion (hepatitis, AIDS, etc) Immune response, vaccine and antisera. Allergies and Inflammation. Inherited diseases and dysfunctions, sex-linked diseases, genetic incompatibilities, and genetic counselling. 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

1. **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.

2. **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 x R x 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.

3. **Trigonometric Functions:** Positive and negative angles. Measuring angles in radians & in degrees and conversion from one measure to another. Definition of trigonometric functions with the help of unit circle. Truth of the identity $\sin^2 x + \cos^2 x = 1$, for all x. Signs of trigonometric functions and sketch of their graphs. Expressing sin ($x+y$) and cos ($x+y$) in terms of sin$x$, sin$y$, cos$x$ & cos$y$. Deducing the identities like the following:

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

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

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

Identities related to sin2x, cos2x, tan2x, sin3x, cos3x and tan3x. General solution of trigonometric equations of the type sin è ?= sin á, cos è ?= cos á ?and tan è ?= tan á.

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 Ón, Ón^2 and Ón^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 x 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

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

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

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

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

6. **Differential Equations:** Definition, order and degree, general and particular solutions of a differential equation. Formation of differential equation whose general solution is given. Solution of differential equations by method of separation of variables, homogeneous differential equations of first order and first degree. Solutions of linear differential equation of the type: $\frac{dy}{dx} + py = q$, where p and q are functions of x.

Unit-5: Vectors and Three-Dimensional Geometry

1. **Vectors:** Vectors and scalars, magnitude and direction of a vector. Direction cosines/ratios of vectors. Types of vectors (equal, unit, zero, parallel and collinear vectors), position vector of a point, negative of a vector, components of a vector, addition of vectors, multiplication of a vector by a scalar, position vector of a point dividing a line segment in a given ratio. Scalar (dot) product of vectors, projection of a vector on a line. Vector (cross) product of vectors.

2. **Three-dimensional Geometry:** Direction cosines/ratios of a line joining two points. Cartesian and vector equation of a line, coplanar and skew lines, shortest distance between two lines. Cartesian and vector equation of a plane. Angle between (i) two lines, (ii) two planes. (iii) a line and a plane. Distance of a point from a plane.

Unit-6: Linear Programming

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

Unit-7: Mathematical Reasoning

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

Unit-8: Statistics & Probability

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

Unit-9: Statics

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

Unit-10: Dynamics

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

AGRICULTURE

Unit-1: Agro meteorology, Genetics and Plant Breeding, Biochemistry and Microbiology

Agrometerology: 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 crockrels 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.

ANNEXURE-II

UNIVERSITY-WISE, SUBJECT-WISE AVAILABLE TENTATIVE NUMBER OF SEATS FOR UG ADMISSIONS FOR THE ACADEMIC SESSION 2010–2011

Sr. No.	Name of University	Agriculture						Horticulture					
		Gen	SC	ST	PH	UPS	Total	Gen	SC	ST	PH	UPS	Total
1.	AAI DU, Allahabad	13	3	1	1	0	18						
2.	AAU, Jorhat	17	3	2	1	0	23						
3.	Anand Agri. University, Anand	9	2	1	0	0	12						
4.	ANGRAU, Hyderabad	54	11	6	2	2	75						
5.	A.P. Horticultural Univ. Venkataramannagudem (A.P.)							24	5	3	1	1	34
6.	BAU, Kanke, Ranchi	6	1	1	0	0	8						
7.	BCKVV, Mohanpur	11	2	1	1	0	15	4	1	0	0	0	5
8.	BHU, Varanasi	9	3	1	1[x]	0	13 +5 (OBC)						
9.	CAU, Imphal	6	2	1	0	0	9 +3 (OBC)	2	0	0	0	0 +1 (OBC)	2
10.	CCSHAU, Hisar	19	4	2	1	1	27						
11.	CSAUA&T, Kanpur	12	3	1	1	1	18						
12.	CSKHPKVV, Palampur	4	1	0	0	0	5						
13.	Dr BSKKV, Dapoli	14	3	1	1	0	19	4	1	0	0	0	5
14.	Dr PDKV, Akola	57	12	6	2	2	79	4	1	0	0	0	5
15.	Dr YSPUH&F, Solan							7	2	1	1	0	11
16.	GADVASU, Ludhiana	-	-	-	-	-	-	-	-	-	-	-	-
17.	GBPUA&T, Pantnagar	28	6	3	1	1	39	4	1	1	1	0	7
18.	IGKVV, Raipur	26	6	3	1	1	37						
19.	JAU, Junagadh	8	1	1	0	0	10						
20.	JNKVV, Jabalpur	22	4	2	1	1	30						
21.	KAU, Thrissur	16	3	2	1	0	22						
22.	KVAFSU, Bidar												
23.	MAU, Parbhani	43	9	4	2	1	59	3	1	1	0	0	5
24.	MAFSU, Nagpur												
25.	MPKV, Rahuri	55	11	6	2	2	76	3	1	1	0	0	5
26.	MPUA&T, Udaipur	9	2	1	0	0	12	4	0	0	0	0	4
27.	Nagaland University, SASARD, Medziphema	7	1	1	0	0	9						
28.	NAU, Navsari	9	2	1	0	0	12	5	1	1	0	0	7
29.	NDRI, Karnal												
30.	NDUA&T, Faizabad	11	2	1	1	0	15	3	1	0	0	0	4
31.	OUA&T, Bhubaneswar	16	3	2	1	1	23	2	0	0	0	0	2
32.	PAU, Ludhiana	12	2	1	1	0	16						
33.	PSBVB, Sriniketan (W.B.)	4	2	1	0	0	7 +2 (OBC)						
34.	RAU, Pusa	17	3	2	1	0	23	4	0	0	0	0	4
35.	RVSKVV, Gwalior	24	5	2	1	1	33	4	1	0	0	0	6
36.	SKDAU, Sardar Krushinagar	7	1	1	0	0	9	4	1	0	0	0	5
37.	SKRAU, Bikaner	16	4	2	1	1	24						
38.	SKUAS&T, Jammu	6	1	1	0	0	8						
39.	SKUAS&T of K, Srinagar	7	1	0	0	0	8	3	0	0	0	0	3
40.	SVBPUA&T, Meerut	7	2	1	0	0	10						
41.	SVV University, Tirupati												
42.	TNAU, Coimbatore	27	6	3	1	1	38	4	1	1	0	1	7
43.	TNV&ASU, Chennai												
44.	UAS, Bangalore	34	8	4	2	1	49						
45.	UAS, Dharwad	22	5	2	1	1	31						
46.	UAS, Raichur	13	3	1	1	0	18						
47.	UBKVV, Cooch Behar (W.B.)	6	1	1	0	0	8	2	0	0	0	0	2
48.	UHS, Bagalkot							23	5	2	1	1	32
49.	WBUA&FS, Belgachia, Kolkata	-	-	-	-	-	-	-	-	-	-	-	-
	Total	**683**	**144**	**73**	**29**	**19**	**947 +10(OBC)**	**113**	**23**	**12**	**4**	**3**	**155 +1 (OBC)**

[x] Horizontal reservation be given

Sr. No.	Name of University	Forestry						Fisheries					
		Gen	SC	ST	PH	UPS	Total	Gen	SC	ST	PH	UPS	Total
1.	AAI DU, Allahabad	7	1	1	0	0	9						
2.	AAU, Jorhat							2	1	0	0	0	3
3.	Anand Agri. University, Anand												
4.	ANGRAU, Hyderabad												
5.	BAU, Ranchi	3	1	0	0	0	4						
6.	BCKVV, Mohanpur												
7.	BHU, Varanasi												
8.	CAU, Imphal	2	1	0	0	0	3	2	0	1	0	0	3
9.	CCSHAU, Hisar												
10.	CSAUA&T, Kanpur	2	1	1	0	0	4						
11.	CSKHPKVV, Palampur												
12.	Dr BSKKV, Dapoli	3	1	0	1	0	5	5	1	0	0	0	6
13.	Dr PDKV, Akola	4	1	0	0	0	5						
14.	Dr YSPUH&F, Solan	5	1	1	0	0	7						
15.	GADVASU, Ludhiana							3	0	0	0	0	3
16.	GBPUA&T, Pantnagar	4	1	0	0	1	6	4	1	0	0	1	6
17.	IGKVV, Raipur												
18.	JAU, Junagadh							4	1	0	1	0	6
19.	JNKVV, Jabalpur	2	0	1	0	0	3[x]						
20.	KAU, Thrissur	3	0	0	0	0	3	4	1	1	1	0	7
21.	KVAFSU, Bidar							4	1	1	0	0	6
22.	MAU, Parbhani												
23.	MAFSU, Nagpur							7	1	1	0	1	10
24.	MPKV, Rahuri												
25.	MPUA&T, Udaipur	2	0	0	0	0	2						
26.	Nagaland University, SASARD, Medziphema												
27.	NAU, Navsari	4	1	0	1	0	6						
28.	NDRI, Karnal												
29.	NDUA&T, Faizabad							3	1	0	0	0	4
30.	OUA&T, Bhubaneswar	2	0	0	0	0	2	2	0	0	0	0	2
31.	PAU, Ludhiana												
32.	PSBVB, Sriniketan (W.B.)												
33.	RAU, Pusa							3	0	1	0	0	4
34.	SKDAU, Sardar Krushinagar												
35.	SKRAU, Bikaner												
36.	SKUAS&T, Jammu												
37.	SKUAS&T of K, Srinagar	2	1	0	0	0	3	2	0	0	0	0	2
38.	SVBPUA&T, Meerut												
39.	SVV University, Tirupati							3	1	1	0	0	5
40.	TNAU, Coimbatore	2	1	0	0	0	3						
41.	TNV&ASU, Chennai							4	1	0	0	0	5
42.	UAS, Bangalore	3	1	1	0	1	6						
43.	UAS, Dharwad	4	1	1	0	0	6						
44.	UBKVV, Cooch Behar (W.B.)												
45.	WBUA&FS, Belgachia, Kolkata							3	1	0	0	0	4
	Total	**54**	**13**	**6**	**2**	**2**	**77**	**55**	**11**	**6**	**2**	**2**	**76**

[x] Candidates should have to pass following Physical Fitness Test at the time of reporting admission to the college/deptt.

(1) Height- (i) Male (Gen., OBC, ST)=163Cm., ST= 152Cm.
(ii) Female (Gen., OBC, ST)=150Cm., ST= 145Cm.

(2) Chest girth- (i) Male=79cm. to 84 cm. (Maximum 5cm. expansion)
(ii) Female =74Cm. to 79 Cm (Minimum 5Cm expansion)

(3) **Physical Capacity for Fast Walking in <u>four hours-</u>**
(i) Male = 25km (ii) Female = 14 Km

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

Sr. No.	Name of University	Home Science						Sericulture					
		Gen	SC	ST	PH	UPS	Total	Gen	SC	ST	PH	UPS	Total
1.	AAI DU, Allahabad	7	1	1	0	0	9						
2.	AAU, Jorhat	5	1	0	0	0	6						
3.	Anand Agri. University, Anand												
4.	ANGRAU, Hyderabad	8	2	1	1	0	12						
5.	BAU, Ranchi												
6.	BCKVV, Mohanpur												
7.	BHU, Varanasi												
8.	CAU, Imphal	2	0	0	0	0	2 +1(OBC)						
9.	CCSHAU, Hisar	7	2	1	1	1	12						
10.	CSAUA&T, Kanpur	4	1	1	0	0	6						
11.	CSKHPKVV, Palampur	3	1	0	0	0	4						
12.	Dr BSKKV, Dapoli												
13.	Dr PDKV, Akola												
14.	Dr YSPUH&F, Solan												
15.	GBPUA&T, Pantnagar	13	3	2	1	1	20						
16.	IGKVV, Raipur												
17.	J AU, Junagadh												
18.	JNKVV, Jabalpur												
19.	KAU, Thrissur												
20.	KVAFSU, Bidar												
21.	MAU, Parbhani	4	1	0	0	0	5						
22.	MAFSU, Nagpur												
23.	MPKV, Rahuri												
24.	MPUA&T, Udaipur	5	1	0	0	0	6						
25.	Nagaland University, SASARD, Medziphema												
26.	NAU, Navsari												
27.	NDRI, Karnal												
28.	NDUA&T, Faizabad	6	1	1	0	0	8						
29.	OUA&T, Bhubaneswar	3	0	0	0	0	3						
30.	PAU, Ludhiana	6	1	1	0	0	8						
31.	PSBVB, Sriniketan (W.B.)												
32.	RAU, Pusa	3	1	0	0	0	4						
33.	SKDAU, Sardar Krushinagar	4	1	1	0	0	6						
34.	SKRAU, Bikaner	4	1	0	1	0	6						
35.	SKUAS&T, Jammu												
36.	SKUAS&T of K, Srinagar							1	0	0	0	0	1
37.	SVBPUA&T, Meerut												
38.	SVV University, Tirupati												
39.	TNAU, Coimbatore	3	1	0	0	0	4						
40.	TNV&ASU, Chennai												
41.	UAS, Bangalore							4	1	0	0	0	5
42.	UAS, Dharwad	6	2	1	0	1	10						
43.	UBKVV, Cooch Behar												
44.	WBUA&FS, Belgachia, Kolkata												
	Total	**93**	**21**	**10**	**4**	**3**	**131 +1(OBC)**	**5**	**1**	**0**	**0**	**0**	**6**

Sr. No.	Name of University	Agricultural Engineering						Dairy Technology					
		Gen	SC	ST	PH	UPS	Total	Gen	SC	ST	PH	UPS	Total
1.	AAI DU, Allahabad	20	4	2	1	1	28	6	1	1	1	0	9
2.	AAU, Jorhat												
3.	Anand Agri. University, Anand	4	1	0	0	0	5	4	1	1	0	0	6
4.	ANGRAU, Hyderabad	10	2	1	1	0	14						
5.	BAU, Ranchi												
6.	BCKVV, Mohanpur	3	1	0	0	0	4						
7.	BHU, Varanasi												
8.	CAU, Imphal	2	1	0	0	0	3 +1(OBC)						
9.	CCSHAU, Hisar	5	1	0	1	0	7						
10.	CSAUA&T, Kanpur	4	1	1	0	0	6						
11.	CSKHPKVV, Palampur												
12.	Dr BSKKV, Dapoli	4	1	0	0	0	5						
13.	Dr PDKV, Akola	6	1	1	0	0	8						
14.	Dr YSPUH&F, Solan												
15.	GADVASU, Ludhiana							2	0	0	1	0	3
16.	GBPUA&T, Pantnagar	7	1	1	0	0	9						
17.	IGKVV, Raipur	5	1	1	0	0	7	4	1	0	0	0	5
18.	JAU, Junagadh	5	1	1	1	0	8						
19.	JNKVV, Jabalpur	7	1	1	0	0	9						
20.	KAU, Thrissur	3	1	0	0	0	4	3	0	1	0	0	4
21.	KVAFSU, Bidar							4	1	0	0	0	5
22.	MAU, Parbhani	6	1	1	0	1	9						
23.	MAFSU, Nagpur							7	1	1	0	1	10
24.	MPKV, Rahuri	6	2	1	0	1	10						
25.	MPUA&T, Udaipur	6	1	1	0	0	8	4	1	0	0	0	5
26.	Nagaland University, SASARD, Medziphema												
27.	NAU, Navsari												
28.	NDRI, Karnal							22	8	4	1[x]	1[x]	34 +13(OBC)
29.	NDUA&T, Faizabad	10	2	1	1	1	15						
30.	OUA&T, Bhubaneswar	3	1	0	0	0	4						
31.	PAU, Ludhiana	6	1	1	0	0	8						
32.	PSBVB, Sriniketan (W.B.)												
33.	RAU, Pusa	5	1	1	1	0	8	3	1	0	0	0	4
34.	SKDAU, Sardar Krushinagar							4	1	0	1	0	6*
35.	SKRAU, Bikaner												
36.	SKUAS&T, Jammu												
37.	SKUAS&T of K, Srinagar	1	0	0	0	0	1						
38.	SVBPUA&T, Meerut												
39.	SVV University, Tirupati							4	1	1	0	1	7
40.	TNAU, Coimbatore	5	1	0	0	0	6						
41.	TNV&ASU, Chennai												
42.	UAS, Bangalore	5	1	0	0	0	6						
43.	UAS, Dharwad												
44.	UAS, Raichur	4	1	0	0	0	5						
45.	UBKVV, Cooch Behar (W.B.)	2	0	0	0	0	2						
46.	WBUA&FS, Belgachia, Kolkata							3	1	0	0	0	4
	Total	**144**	**30**	**15**	**6**	**4**	**199 +1(OBC)**	**70**	**18**	**9**	**4**	**3**	**102 +13(OBC)**

* Dairy & Food Technology

[x] The seat will be provided to the candidates against the category i.e. Gen/SC/ST/OBC to which they belong

Sr. No.	Name of University	Food Science						Agri. Mktg. & Coop.					
		Gen	SC	ST	PH	UPS	Total	Gen	SC	ST	PH	UPS	Total
1.	AAI DU, Allahabad												
2.	AAU, Jorhat												
3.	Anand Agri. University, Anand	4	1	0	0	0	5*	4	1	0	0	0	5×
4.	ANGRAU, Hyderabad	11	2	1	0	0	14^{+++}	4	1	0	0	1	6^{++}
5.	BAU, Ranchi												
6.	BCKVV, Mohanpur												
7.	BHU, Varanasi												
8.	CAU, Imphal												
9.	CCSHAU, Hisar												
10.	CSAUA&T, Kanpur												
11.	CSKHPKVV, Palampur												
12.	Dr BSKKV, Dapoli												
13.	Dr PDKV, Akola												
14.	Dr YSPUH&F, Solan												
15.	GBPUA&T, Pantnagar	8	2	1	0	1	12	Self financing					
16.	IGKVV, Raipur												
17.	JAU, Junagadh												
18.	JNKVV, Jabalpur												
19.	KAU, Thrissur							4	1	0	1	0	6^{+}
20.	MAU, Parbhani	6	1	1	1	0	$9^{@}$						
21.	MAFSU, Nagpur												
22.	MPKV, Rahuri												
23.	MPUA&T, Udaipur	3	1	0	0	0	4						
24.	NAU, Navsari												
25.	NDRI, Karnal												
26.	NDUA&T, Faizabad												
27.	OUA&T, Bhubaneswar												
28.	PAU, Ludhiana												
29.	PSBVB, Sriniketan (W.B.)												
30.	SKRAU, Bikaner												
31.	RAU, Pusa												
32.	SKDAU, Sardar Krushinagar												
33.	SKUAS&T, Jammu												
34.	SKUAS&T of K, Srinagar												
35.	SVBPUA&T, Meerut												
36.	TNAU, Coimbatore												
37.	TNV&ASU, Chennai												
38.	UAS, Bangalore	5	1	0	0	0	6	4	1	1	0	0	$6^{=}$
39.	UAS, Dharwad							6	1	1	0	0	8
40.	UBKVV, Cooch Behar (W.B.)												
41.	WBUA&FS, Belgachia, Kolkata												
	Total	**37**	**8**	**3**	**1**	**1**	**50**	**22**	**5**	**2**	**1**	**1**	**31**

+B.Sc. (Cooperation & Banking)

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

Note: 1. The number of seats given above are tentative. These may vary depending upon decision at university level.

2. Reservation of seats for OBC would be as per Government of India directives and as per seat positions communicated by the Universities before counselling. Seats reserved for OBC will be applicable to Central Government institutions namely, NDRI, BHU and Viswa Bharti (PSB, VB) Universities.

3. ***In addition to the above, limited seats in the following programmes are also available:***
–B.Tech. (Biotechnology) at SVBPUA&T, Meerut - 10 seats (6-1-1-1-1-) for PCM/PCMB, at UAS, Bangalore - 7 seats (5-1-1-0-0) of B.Sc. (Agri Biotech) for PCB and at RAU, Pusa 5 seats (4-1-0-0-0) for PCM.

* Food Processing Technology.

× Agril. Information Technology.

@ for PCB

= for PCM/ PCB

$^{+++}$ Available 7 seats for PCB Stream

ANNEXURE-III

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

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

15th ALL INDIA ENTRANCE EXAMINATION FOR ADMISSION TO AGRICULTURE AND ALLIED SUBJECTS FOR THE SESSION 2010–2011 (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.	4. CITY OF EXAM CENTRE (CODE NO.)	5. QUESTION BOOKLET SERIAL NO.	6. DATE OF EXAM **17 APRIL, 2010**

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.

	SIGNATURE OF THE CANDIDATE BY BALL-POINT PEN ONLY	SIGNATURE OF THE INVIGILATOR BY BALL-POINT PEN ONLY
7.		

ANSWER SHEET - SIDE 2

8. ROLL NUMBER

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 Ⓐ

MATHS Ⓑ

10. SERIES

①

CHECK FROM YOUR QUESTION BOOKLET

②

11. OPTIONAL PAPER ATTEMPTED

BIO ○

MATHS ○

AGRIC ○

12. CATEGORY

SC ○

ST ○

PH ○

UPS ○

OBC ○

GEN ○

13. ANSWER COLUMNS

COMPULSORY

PHYSICS

001	Ⓐ	Ⓑ	Ⓒ	Ⓓ	013	Ⓐ	Ⓑ	Ⓒ	Ⓓ	025	Ⓐ	Ⓑ	Ⓒ	Ⓓ	037	Ⓐ	Ⓑ	Ⓒ	Ⓓ	049	Ⓐ	Ⓑ	Ⓒ	Ⓓ
002	Ⓐ	Ⓑ	Ⓒ	Ⓓ	014	Ⓐ	Ⓑ	Ⓒ	Ⓓ	026	Ⓐ	Ⓑ	Ⓒ	Ⓓ	038	Ⓐ	Ⓑ	Ⓒ	Ⓓ	050	Ⓐ	Ⓑ	Ⓒ	Ⓓ
003	Ⓐ	Ⓑ	Ⓒ	Ⓓ	015	Ⓐ	Ⓑ	Ⓒ	Ⓓ	027	Ⓐ	Ⓑ	Ⓒ	Ⓓ	039	Ⓐ	Ⓑ	Ⓒ	Ⓓ	051	Ⓐ	Ⓑ	Ⓒ	Ⓓ
004	Ⓐ	Ⓑ	Ⓒ	Ⓓ	016	Ⓐ	Ⓑ	Ⓒ	Ⓓ	028	Ⓐ	Ⓑ	Ⓒ	Ⓓ	040	Ⓐ	Ⓑ	Ⓒ	Ⓓ	052	Ⓐ	Ⓑ	Ⓒ	Ⓓ
005	Ⓐ	Ⓑ	Ⓒ	Ⓓ	017	Ⓐ	Ⓑ	Ⓒ	Ⓓ	029	Ⓐ	Ⓑ	Ⓒ	Ⓓ	041	Ⓐ	Ⓑ	Ⓒ	Ⓓ	053	Ⓐ	Ⓑ	Ⓒ	Ⓓ
006	Ⓐ	Ⓑ	Ⓒ	Ⓓ	018	Ⓐ	Ⓑ	Ⓒ	Ⓓ	030	Ⓐ	Ⓑ	Ⓒ	Ⓓ	042	Ⓐ	Ⓑ	Ⓒ	Ⓓ	054	Ⓐ	Ⓑ	Ⓒ	Ⓓ
007	Ⓐ	Ⓑ	Ⓒ	Ⓓ	019	Ⓐ	Ⓑ	Ⓒ	Ⓓ	031	Ⓐ	Ⓑ	Ⓒ	Ⓓ	043	Ⓐ	Ⓑ	Ⓒ	Ⓓ	055	Ⓐ	Ⓑ	Ⓒ	Ⓓ
008	Ⓐ	Ⓑ	Ⓒ	Ⓓ	020	Ⓐ	Ⓑ	Ⓒ	Ⓓ	032	Ⓐ	Ⓑ	Ⓒ	Ⓓ	044	Ⓐ	Ⓑ	Ⓒ	Ⓓ	056	Ⓐ	Ⓑ	Ⓒ	Ⓓ
009	Ⓐ	Ⓑ	Ⓒ	Ⓓ	021	Ⓐ	Ⓑ	Ⓒ	Ⓓ	033	Ⓐ	Ⓑ	Ⓒ	Ⓓ	045	Ⓐ	Ⓑ	Ⓒ	Ⓓ	057	Ⓐ	Ⓑ	Ⓒ	Ⓓ
010	Ⓐ	Ⓑ	Ⓒ	Ⓓ	022	Ⓐ	Ⓑ	Ⓒ	Ⓓ	034	Ⓐ	Ⓑ	Ⓒ	Ⓓ	046	Ⓐ	Ⓑ	Ⓒ	Ⓓ	058	Ⓐ	Ⓑ	Ⓒ	Ⓓ
011	Ⓐ	Ⓑ	Ⓒ	Ⓓ	023	Ⓐ	Ⓑ	Ⓒ	Ⓓ	035	Ⓐ	Ⓑ	Ⓒ	Ⓓ	047	Ⓐ	Ⓑ	Ⓒ	Ⓓ	059	Ⓐ	Ⓑ	Ⓒ	Ⓓ
012	Ⓐ	Ⓑ	Ⓒ	Ⓓ	024	Ⓐ	Ⓑ	Ⓒ	Ⓓ	036	Ⓐ	Ⓑ	Ⓒ	Ⓓ	048	Ⓐ	Ⓑ	Ⓒ	Ⓓ	060	Ⓐ	Ⓑ	Ⓒ	Ⓓ

CHEMISTRY

061	Ⓐ	Ⓑ	Ⓒ	Ⓓ	073	Ⓐ	Ⓑ	Ⓒ	Ⓓ	085	Ⓐ	Ⓑ	Ⓒ	Ⓓ	097	Ⓐ	Ⓑ	Ⓒ	Ⓓ	109	Ⓐ	Ⓑ	Ⓒ	Ⓓ
062	Ⓐ	Ⓑ	Ⓒ	Ⓓ	074	Ⓐ	Ⓑ	Ⓒ	Ⓓ	086	Ⓐ	Ⓑ	Ⓒ	Ⓓ	098	Ⓐ	Ⓑ	Ⓒ	Ⓓ	110	Ⓐ	Ⓑ	Ⓒ	Ⓓ
063	Ⓐ	Ⓑ	Ⓒ	Ⓓ	075	Ⓐ	Ⓑ	Ⓒ	Ⓓ	087	Ⓐ	Ⓑ	Ⓒ	Ⓓ	099	Ⓐ	Ⓑ	Ⓒ	Ⓓ	111	Ⓐ	Ⓑ	Ⓒ	Ⓓ
064	Ⓐ	Ⓑ	Ⓒ	Ⓓ	076	Ⓐ	Ⓑ	Ⓒ	Ⓓ	088	Ⓐ	Ⓑ	Ⓒ	Ⓓ	100	Ⓐ	Ⓑ	Ⓒ	Ⓓ	112	Ⓐ	Ⓑ	Ⓒ	Ⓓ
065	Ⓐ	Ⓑ	Ⓒ	Ⓓ	077	Ⓐ	Ⓑ	Ⓒ	Ⓓ	089	Ⓐ	Ⓑ	Ⓒ	Ⓓ	101	Ⓐ	Ⓑ	Ⓒ	Ⓓ	113	Ⓐ	Ⓑ	Ⓒ	Ⓓ
066	Ⓐ	Ⓑ	Ⓒ	Ⓓ	078	Ⓐ	Ⓑ	Ⓒ	Ⓓ	090	Ⓐ	Ⓑ	Ⓒ	Ⓓ	102	Ⓐ	Ⓑ	Ⓒ	Ⓓ	114	Ⓐ	Ⓑ	Ⓒ	Ⓓ
067	Ⓐ	Ⓑ	Ⓒ	Ⓓ	079	Ⓐ	Ⓑ	Ⓒ	Ⓓ	091	Ⓐ	Ⓑ	Ⓒ	Ⓓ	103	Ⓐ	Ⓑ	Ⓒ	Ⓓ	115	Ⓐ	Ⓑ	Ⓒ	Ⓓ
068	Ⓐ	Ⓑ	Ⓒ	Ⓓ	080	Ⓐ	Ⓑ	Ⓒ	Ⓓ	092	Ⓐ	Ⓑ	Ⓒ	Ⓓ	104	Ⓐ	Ⓑ	Ⓒ	Ⓓ	116	Ⓐ	Ⓑ	Ⓒ	Ⓓ
069	Ⓐ	Ⓑ	Ⓒ	Ⓓ	081	Ⓐ	Ⓑ	Ⓒ	Ⓓ	093	Ⓐ	Ⓑ	Ⓒ	Ⓓ	105	Ⓐ	Ⓑ	Ⓒ	Ⓓ	117	Ⓐ	Ⓑ	Ⓒ	Ⓓ
070	Ⓐ	Ⓑ	Ⓒ	Ⓓ	082	Ⓐ	Ⓑ	Ⓒ	Ⓓ	094	Ⓐ	Ⓑ	Ⓒ	Ⓓ	106	Ⓐ	Ⓑ	Ⓒ	Ⓓ	118	Ⓐ	Ⓑ	Ⓒ	Ⓓ
071	Ⓐ	Ⓑ	Ⓒ	Ⓓ	083	Ⓐ	Ⓑ	Ⓒ	Ⓓ	095	Ⓐ	Ⓑ	Ⓒ	Ⓓ	107	Ⓐ	Ⓑ	Ⓒ	Ⓓ	119	Ⓐ	Ⓑ	Ⓒ	Ⓓ
072	Ⓐ	Ⓑ	Ⓒ	Ⓓ	084	Ⓐ	Ⓑ	Ⓒ	Ⓓ	096	Ⓐ	Ⓑ	Ⓒ	Ⓓ	108	Ⓐ	Ⓑ	Ⓒ	Ⓓ	120	Ⓐ	Ⓑ	Ⓒ	Ⓓ

OPTIONAL
BIO / MATHS / AGRIC

121	Ⓐ	Ⓑ	Ⓒ	Ⓓ	133	Ⓐ	Ⓑ	Ⓒ	Ⓓ	145	Ⓐ	Ⓑ	Ⓒ	Ⓓ	157	Ⓐ	Ⓑ	Ⓒ	Ⓓ	169	Ⓐ	Ⓑ	Ⓒ	Ⓓ
122	Ⓐ	Ⓑ	Ⓒ	Ⓓ	134	Ⓐ	Ⓑ	Ⓒ	Ⓓ	146	Ⓐ	Ⓑ	Ⓒ	Ⓓ	158	Ⓐ	Ⓑ	Ⓒ	Ⓓ	170	Ⓐ	Ⓑ	Ⓒ	Ⓓ
123	Ⓐ	Ⓑ	Ⓒ	Ⓓ	135	Ⓐ	Ⓑ	Ⓒ	Ⓓ	147	Ⓐ	Ⓑ	Ⓒ	Ⓓ	159	Ⓐ	Ⓑ	Ⓒ	Ⓓ	171	Ⓐ	Ⓑ	Ⓒ	Ⓓ
124	Ⓐ	Ⓑ	Ⓒ	Ⓓ	136	Ⓐ	Ⓑ	Ⓒ	Ⓓ	148	Ⓐ	Ⓑ	Ⓒ	Ⓓ	160	Ⓐ	Ⓑ	Ⓒ	Ⓓ	172	Ⓐ	Ⓑ	Ⓒ	Ⓓ
125	Ⓐ	Ⓑ	Ⓒ	Ⓓ	137	Ⓐ	Ⓑ	Ⓒ	Ⓓ	149	Ⓐ	Ⓑ	Ⓒ	Ⓓ	161	Ⓐ	Ⓑ	Ⓒ	Ⓓ	173	Ⓐ	Ⓑ	Ⓒ	Ⓓ
126	Ⓐ	Ⓑ	Ⓒ	Ⓓ	138	Ⓐ	Ⓑ	Ⓒ	Ⓓ	150	Ⓐ	Ⓑ	Ⓒ	Ⓓ	162	Ⓐ	Ⓑ	Ⓒ	Ⓓ	174	Ⓐ	Ⓑ	Ⓒ	Ⓓ
127	Ⓐ	Ⓑ	Ⓒ	Ⓓ	139	Ⓐ	Ⓑ	Ⓒ	Ⓓ	151	Ⓐ	Ⓑ	Ⓒ	Ⓓ	163	Ⓐ	Ⓑ	Ⓒ	Ⓓ	175	Ⓐ	Ⓑ	Ⓒ	Ⓓ
128	Ⓐ	Ⓑ	Ⓒ	Ⓓ	140	Ⓐ	Ⓑ	Ⓒ	Ⓓ	152	Ⓐ	Ⓑ	Ⓒ	Ⓓ	164	Ⓐ	Ⓑ	Ⓒ	Ⓓ	176	Ⓐ	Ⓑ	Ⓒ	Ⓓ
129	Ⓐ	Ⓑ	Ⓒ	Ⓓ	141	Ⓐ	Ⓑ	Ⓒ	Ⓓ	153	Ⓐ	Ⓑ	Ⓒ	Ⓓ	165	Ⓐ	Ⓑ	Ⓒ	Ⓓ	177	Ⓐ	Ⓑ	Ⓒ	Ⓓ
130	Ⓐ	Ⓑ	Ⓒ	Ⓓ	142	Ⓐ	Ⓑ	Ⓒ	Ⓓ	154	Ⓐ	Ⓑ	Ⓒ	Ⓓ	166	Ⓐ	Ⓑ	Ⓒ	Ⓓ	178	Ⓐ	Ⓑ	Ⓒ	Ⓓ
131	Ⓐ	Ⓑ	Ⓒ	Ⓓ	143	Ⓐ	Ⓑ	Ⓒ	Ⓓ	155	Ⓐ	Ⓑ	Ⓒ	Ⓓ	167	Ⓐ	Ⓑ	Ⓒ	Ⓓ	179	Ⓐ	Ⓑ	Ⓒ	Ⓓ
132	Ⓐ	Ⓑ	Ⓒ	Ⓓ	144	Ⓐ	Ⓑ	Ⓒ	Ⓓ	156	Ⓐ	Ⓑ	Ⓒ	Ⓓ	168	Ⓐ	Ⓑ	Ⓒ	Ⓓ	180	Ⓐ	Ⓑ	Ⓒ	Ⓓ

ANNEXURE-V

PROFORMA FOR AUTHORITY LETTER AND UNDERTAKING FOR AUTHORISED REPRESENTATIVE FOR PARTICIPATION IN COUNSELLING FOR ALLOTMENT OF SEATS IN UNIVERSITY / INSTITUTE FOR ADMISSION

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:

Photograph of the Candidate	Attested by the Principal of school/ college or head of the institution last attended or by a gazetted officer (full address of attesting authority)	NAME :..... ROLL NO. :..... RANK NO. :..... ADDRESS :..... .... (Signature of the authorized representative)
Photograph of the Representative	Photograph of representative attested by the gazetted officer	..... (Attested by the candidate)

I.....Son/Daughter of Shri.....

aged.....Years .....month bearing Roll No. ..... placed at Rank ..... (in ICAR's All India Entrance Examination–UG-2010) 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 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.

ANNEXURE-VI

SCHEDULED CASTE/ TRIBE CERTIFICATE

Form of certificate to be produced by a candidate belonging to SC / ST in support of his/her claim

FORM OF 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/U3nion Territory)

Date .....

*Please delete the words which are not applicable. Please quote 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.

List of 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)

NOTE: Candidates belonging to OBC category will also be required to substantiate their claim by producing required **Central OBC certificate** in case reservation is also applied to OBC category at the time of counselling.

ANNEXURE-VII

FORM OF 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 No186 dated 13/09/93.
(ii) Resolution No. 12011/9/94-BCC dated 19/10/94 published in the Gazette of India Extraordinary Part I Section I No. 163 dated 20/10/94.
(iii) Resolution No. 12011/7/95-BCC dated 24/05/95 published in the Gazette of India Extraordinary Part I Section I No. 88 dated 25/05/95.
(iv) Resolution No. 12011/96/94-BCC dated 9/03/96.
(v) Resolution No. 12011/44/96-BCC dated 6/12/96 published in the Gazette of India Extraordinary Part I Section I No. 210 dated 11/12/96.
(vi) Resolution No. 12011/13/97-BCC dated 03/12/97.
(vii) Resolution No. 12011/99/94-BCC dated 11/12/97.
(viii) Resolution No. 12011/68/98-BCC dated 27/10/99.
(ix) Resolution No. 12011/88/98-BCC dated 6/12/99 published in the Gazette of India Extraordinary Part I Section I No. 270 dated 06/12/99.
(x) Resolution No. 12011/36/99-BCC dated 04/04/2000 published in the Gazette of India Extraordinary Part I Section I No. 71 dated 04/04/2000.
(xi) Resolution No. 12011/44/99-BCC dated 21/09/2000 published in the Gazette of India Extraordinary Part I Section I No. 210 dated 21/09/2000.
(xii) Resolution No. 12015/9/2000-BCC dated 06/09/2001.
(xiii) Resolution No. 12011/1/2001-BCC dated 19/06/2003.
(xiv) Resolution No. 12011/4/2002-BCC dated 13/01/2004.
(xv) Resolution No. 12011/9/2004-BCC dated 16/01/2006 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 of .....State. 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 / Ist Class Stipendiary Magistrate / Sub-Divisional magistrate / Taluka Magistrate / Executive Magistrate / Extra Assistant Commissioner (not below the rank of Ist Class Stipendiary Magistrate).
  (ii) Chief Presidency Magistrate / Additional Chief Presidency Magistrate / Presidency Magistrate.
  (iii) Revenue Officer not below the rank of Tehsildar' and
  (iv) Sub-Divisional Officer of the area where the candidate and / or his family resides.

Declaration/undertaking - for OBC Candidates only

I, ...son/daughter of Shri..... resident of village/town/city.....district ..... State 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/creamylayer.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. 2.5 Lakhs per year

LIST OF CITIES OF EXAMINATION CENTRES WITH CODE NUMBER, CODE NAME AND ADDRESS OF NODAL OFFICER/CONTACT PERSON FOR EXAM 2010–11

City of Exam Center (Code No)	Alphabetic Code Name of City of Exam Centre	Name of the city of Examination Centre	Contact Phone Number of Nodal Officer	Address of Nodal Officer/Contact Person
01	PBR	Port Blair	03192-250436	Director, Central Agricultural Research Institute, Port Blair-744 101
02	HYD	Hyderabad	040-24530177	Director, Central Research Institute for Dryland Agriculture, Santoshnagar, Hyderabad-500 059
03	GUH	Guwahati	0361-2337700	Dean, College of Veterinary Science, Khanapara, Guwahati, Assam
04	PUS	Pusa (Bihar)	06274-240239	Registrar, Rajendra Ag. Univ., Pusa (Samastipur)-848125. Bihar
05	RAN	Ranchi	0651-2261156	Director, Indian Lac Research Institute, Namkum, Ranchi-834 010, Jharkhand
06	PAT	Patna	0612-2223962	Director, ICAR Research Complex for Eastern Region, ICAR Parisar, P.O. Bihar Veterinary College, Patna, Bihar-800 014
07	DEL	Delhi	011-25848033	Deputy Secretary (Education), ICAR, KAB-II, Pusa, New Delhi-110 012
08	DHR	Dharwad	0836-2747958	Registrar, University of Agricultural Sciences, Dharwad-580005. Karnataka.
09	AND	Anand	0268-2578602	National Research Centre for Medicinal & Aromatic Plants, Boriavi, Anand, Gujarat-387 310
10	HIS	Hisar	01662-275787	Director, National Research Centre on Equines, Hisar-125 001
11	KAR	Karnal	0184-2259009	Registrar (Academic), NDRI, Karnal, Haryana
12	PAL	Palampur	01894-230383	Registrar, CSKKVV, Palampur, Himachal Pradesh
13	SOL	Solan	01792-252219	Registrar, Dr. YSPUH&F, Nauni, Solan, Himachal Pradesh
14	JAM	Jammu	0191-2262845	Dean, College of Agri., SKUAS&T, Jammu, Jammu and Kashmir
15	BAN	Bangalore	080-28466353	Indian Institute of Horticultural Research, Hessaraghatta Lake, Bangalore-560 089
16	MAN	Mannuthy	0487-2370344	Dean, Veterinary College, KAU, Mannuthy, Kerala
17	COC	Cochin	0484-2394798	Director, Central Marine Fisheries Research Institute, Ernakulam North, Cochin-682 018, Kerala
18	IND	Indore	0731-2476188	Director, National Research Centre for Soybean, Khandwa Road, Indore-452 017, Madhya Pradesh
19	JBL	Jabalpur	0761-2353138	National Research Centre for Weed Science, Adhartal, Jabalpur-482 004
20	RAP	Raipur	0771-2442491	Dean, College of Agri., IGKVV, Raipur Chhattisgarh
21	NAG	Nagpur	07103-275536	Director, Central Institute for Cotton Research, Nagpur-440 010
22	PUN	Pune	020-26914245	Director, National Research Centre on Grapes, Pune-412 307
23	IMP	Imphal	0385-2410644	Registrar, Central Ag. Univ., Imphal, Manipur
24	SHG	Shillong	0364-2570257	Director, ICAR Research Complex for NEH Region, Umroi Road, Umiam, (Ri-Bhoi)-793103. Meghalaya
25	BBR	Bhubaneswar	0674-2300060	Director, Water Technology Centre for Eastern Region, Chandrasekharpur-751 023, Bhubaneswar. Orissa.
26	LDH	Ludhiana	0161-2808669	Director, Central Institute of Post Harvest Engg. & Technology, P.O. PAU, Ludhiana-141 004
27	BIK	Bikaner	0151-2230183	Director, National Research Centre on Camel, Jorbeer, Bikaner-334 001
28	KOT	Kota	0744-2462642	Officer Incharge, Central Soil & Water Conservation Research and Training Institute, Research Centre, Dadwara, Kota, Rajasthan-324 002
29	UDP	Udaipur	0294-2418976	Dean, College of Agri., Udaipur, Rajasthan
30	GTK	Gangtok	03592-231030	Head, ICAR Complex to NEH, Tadong, Gangtok-737 102, Sikkim
31	CHN	Chennai	044-24617253	Director, Central Institute of Brackish Water Aquaculture, R.A. Puram, Chennai-600 028
32	CBR	Coimbatore	0442-2472986	Director, Sugarcane Breeding Institute, Coimbatore-641 007
33	LKW	Lucknow	0522-2480726	Director, Indian Institute of Sugarcane Research, Lucknow-226 002
34	PNT	Pantnagar	05944-233640	Registrar, GBPUA&T, Pantnagar, Uttarakhand
35	VAR	Varanasi	0542-2635236	Director, Indian Institute of Vegetable Research, Varanasi-221 005
36	KOL	Kolkata	033-24711807	Director, NIRJAFT, 12 Regent Park, Kolkata-700 040 West Bengal
37	MOH	Mohanpur	033-25878163	Registrar, BCKVV, Mohanpur, Distt., Nadia, West Bengal
38	SGR	Srinagar (Kashmir)	0194-2305044	Director, Central Institute of Temperate Horticulture, Old Air Field, Rangreth-190 007, Srinagar
39	TRP	Tirupati	0877-2248894	Registrar, Sri Venkateswara Veterinary University, Tirupati, Chittoor-517 502

NOTE:

1. The exact place of Exam City Centre will be mentioned in admit card. It will also be available on ICAR website icar.org.in after 15 April 2010.
2. Council may change/shift the Examination City Center if number of candidates is more/less at any City Center opted by the candidate.

State of Domicile of the candidate and Code name – in Alphabetical order

Name of the State/U.T.	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

ANNEXURE-X

LIST OF UNIVERSITIES FOR ADMISSIONS IN U.G. PROGRAMMES IN AGRICULTURE AND ALLIED SCIENCE SUBJECTS THROUGH AIEEA-UG-2010, THEIR ADDRESSES, CONTACT PHONE AND FAX NUMBERS

S. 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	02692-261 310 02692-261 520
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.	Birsa Agricultural University, Kanke, Ranchi-834 006 (Jharkhand)	0651-2450 832	0651-2450 850
7.	Central Agricultural University, PO Box 23, Imphal-795 004 (Manipur)	0385-2415 196 0385-2412 944	0385-2410 414
8.	Ch. Sarwan Kumar Himachal Pradesh Krishi Vishva Vidyalaya, 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 Agril. 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 Vishwa-vidyalaya, 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	08482-245 106	08482-245 107
20.	Kerala Agricultural University 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

S. No.	Name & Address of University	Tel. No. of Registrar with STD code	Fax No. of Registrar
25.	Narendra Dev University of Agri. and Technology Kumarganj, Faizabad-224 229 (Uttar Pradesh)	05270-262 035	05270-262 035
26.	Navsari Agricultural University Eru Char Rasta, NAVSARI-396 450 (Gujarat)	02637-282 823 02637-282 771	02637-283 794 02637-284 254
27.	Orissa University of Agriculture & Technology Bhubaneshwar-751 003 (Orissa)	0674-2391 424	0674-2391424
28.	Punjab Agricultural University, Ludhiana-141 004 (Punjab)	0161-2400 955	0161-2400 955
29.	Swami Keshwanand Rajasthan Agricultural University Bikaner-334 006 (Rajasthan)	0151-2250 336	0151-2250 025
30.	Rajendra Agricultural University, Pusa Samastipur-848 125 (Bihar)	06274-240 239	06274-240 277
31.	Rajmata Vijaya Raje Scindia Krishi Vishwavidyalaya Race Course Road, Gwalior-474002 (M.P.)	0751-2467675 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, Sardar Krushinagar, Distt. Banaskantha-385 506 (Gujarat)	02748-278 226	02748-278 234
34.	Sher-E-Kashmir University of Agril. 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.	Tamil Nadu Agricultural University, Coimbatore-641 003 (Tamil Nadu)	0422-2431 821	0422-2431821
38.	Tamil Nadu Veterinary & Animal Sciences University, Chennai-600 051 (Tamil Nadu)	044-25551 584	044-25551 585
39.	University of Agricultural Sciences, Dharwad-580 005 (Karnataka)	0836-2747 958	0836-2745 276
40.	University of Agricultural Sciences, GKVK, Bangalore-560 065 (Karnataka)	080-23330 984	080-23330 277
41.	University of Agricultural Sciences, Raichur-584102 (Karnataka)	08532-241444	08532-220444
42.	University of Horticultural Sciences Navanagar, Bagalkot-587102 (Karnataka)	08354-201354	08354-235152
43.	Uttar Banga Krishi Viswavidyalaya, PO Pundibari, Dist. Cooch Behar-736 165 (West Bengal)	03582-270 143 03582-270 588	03582-270 143
44.	West Bengal University of Animal & Fishery Sciences, 68 KB Sarani, Kolkata-700 037 (West Bengal)	033-2556 3123	033-25563 123
45.	Institute of Agricultural Sciences, Banaras Hindu University, Varanasi-221 005 (UP)	0542-2368 558 Dy. Registrar (Dev.) 0542-2307 222 0542-2307 270 0542-2307 276	0542-2368 174
46.	School of Agril. Sciences & Rural Development (Nagaland University), Medziphema-797 106	03862-247 255 03862-247 269	03862-247 113 –
47.	Palli Siksha Bhavana, Visva Bharati P.O. Srineketan-731 236, Bir Bhum (W.B.)	03463-261 531 03463-264 779	03463-261 156
48.	Higginbottom Institute of Agricultural Technology & Sciences (AAI-DU), Formerly Allahabad Research Institute Naini, Allahabad-211 007 (UP)	0532-2684 281	0532-2684 394
49.	National Dairy Research Institute Karnal-132 001 (Haryana)	0184-2259 008	0184-2250 042

INSTRUCTIONS FOR FILLING AND SUBMITTING THE APPLICATION FORM, IDENTITY VERIFICATION CARD AND ACKNOWLEDGEMENT CARD

Candidates are required to note the following instructions carefully while filling and submitting the Application Form. Any mistake committed in filling the form, can not be corrected by ICAR 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 Form and the Post Office registration receipt of posting the form for future correspondence, if any.

(i) **Please ensure that you satisfy the eligibility requirements as contained in the Information Bulletin for appearing in the examination**.

(ii) Fill-in both sides of the Application Form with black bold ball-point pen in good handwriting - all in plain capital letters (do not use cursive writing).
It is advised 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 later on, you may apply correcting white Fluid on the mistakes, allow it to dry, and then make corrections by black bold 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 form duly filled-in should be dispatched to the following address by Registered/Speed Post or may also be submitted personally.

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

(v) The **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:

16 February 2010.

(b) Last date for receiving request in ICAR for Information Bulletin with Application Form by post with bank draft drawn in favour of Deputy Director General (Education), ICAR payable at New Delhi: **10 February 2010**.

(c) Last date for purchase of Information Bulletins and Application Forms from offices of the Registrars of State Agricultural Universities by depositing cash: **16 February 2010**.

(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): **16 February 2010**

(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:

23 February 2010

(f) Date and time of Examination:

17th April 2010 (Saturday) 10:00 – 12:30 hrs.

(g) Dates of Counseling: Please see Annexure XII.

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-VII of this Bulletin.

Write the Code Number (in figures) for your choice of the city of Examination Centre. For example for Raipur write 2|0 in the rectangular boxes and then darken the circle ② in first column and ⓪ in 2nd column with black ball point pen. Other circles should be left blank.

Sr. No. 5: **School Board of Class XII** – Refer Annexure III 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-VIII

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 ball point pen and then darken the circles ⓪ in 1st column and ⑤ in 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-VIII.

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 ball point 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 fill any extra subject which will not be appearing in your marks sheet.

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".

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. In case, you do not specify any category, the application form is likely to be rejected. Names of States/UTs, which fall in category UPS is given in 7.2 on page 7.

Sr. No. 14: **Medium of Question paper**: This refers to medium/ language of Question Paper that you will like to get for this Examination. If you wish to get and attempt the paper in English medium, you should write 1 in Rectangle and darken the circle. If you wish to get the 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". Similarly, others may darken 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 in front of Indian.

Sr. No. 18: **Alphabetic Code name of the City Exam Centre**: Refer Annexure-VII. Find the alphabetic code name of the City of Exam 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 City of Examination Centre" in the application Form.

Sr. No. 19: Write **% Marks obtained in English in XII**: If you have already passed Class XII, and marks sheet has been issued, then write the percentage of your marks obtained in English subject in class XII. 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 2008, write 2008 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. 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 a recent, clear passport size photograph (3.5 × 4.5 cm) showing front view of the face clearly without cap and without dark spectacles. It could be Black and White or Coloured. Do not staple or pin the photograph. It should NOT be attested or signed by any body. The photograph will be scanned and used in your Photo Admit Card and Attendance Sheet. Also, it will be sent to the University where you get admitted for their verification and future records. Unclear photograph will invite rejection of the Form.

Sr. No. 26: **Write address** (**do not write your name**) **in Capitals** 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.

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

The filled Application Form should be thoroughly checked for all the entries and their correctness. **Keep a photocopy of the filled Form with you**. Without folding, put the Application Form, Acknowledgement Card and Identity Verification Card in the prescribed envelop. Post these by Registered or Speed Post. Keep the receipt of the Post Office with you for future records.

How to fill up the Identity Verification Card (Annexure XI)

This Card is basically to check that the genuine candidate only appears in the Examination. Except for the Roll number of the candidate that will be filled by the Education Division, ICAR, rest all the entries are to be made by the candidate. The particulars supplied by the candidate in this Card are to be got attested by the Principal of the School last attended or any Gazetted officer. He/ she should also sign at the specified place and put his/ her Office Stamp.

Acknowledgement Card

Candidate should write his/her postal address and Alphabetic Code Name of City of Exam Centre. Postage stamp of Rs 6.00 should be pasted on the acknowledgement card. These should be detached from Information Bulletin and sent along with the Application Form to the ICAR.

Address for sending the Application Form, Acknowledgement Card and Identity Verification 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

Please keep a photocopy of the duly filled Application Form with you

TENTATIVE SCHEDULE FOR PERSONAL APPEARANCE/ COUNSELLING FOR THE ALLOTMENT OF SEATS TO UNIVERSITIES/INSTITUTES FOR ADMISSION TO UNDER-GRADUATE COURSES IN AGRICULTURE AND ALLIED SUBJECTS OTHER THAN VETERINARY SCIENCE

Venue

NASC Complex (ICAR)
Dev Prakash Shastri Marg
(Opp. Todapur), Pusa, New Delhi 110 012

Tentative schedule for Personal Appearance/ Counselling			**9.00 AM to 1.00 PM Rank of the candidate**	**2.00 PM to 6.00 PM Rank of the candidate**
15.06.2010	(Tuesday)	Maths Group (**STREAM-B**) **(All SC/ST/PH/UPS)** & (General + OBC upto 300)	**STREAM-B (Math) (All SC/ST/PH/UPS)**	**STREAM-B** (General + OBC) 1–300
16.06.2010	(Wednesday)	Maths Group (**STREAM-B**) **(General + OBC)**	**STREAM-B** 301–600	**STREAM-B** 601 and onwards
17.06.2010	(Thursday)	Biology/Agri. Group **STREAM-A (SC/ST/PH/UPS)**	**STREAM-A (Bio/Agri)** (All ST, PH and UPS). SC from rank 1-200	**STREAM-A** Rest all SC candidates
18.06.2010	(Friday)	**STREAM-A (General+OBC)**	(General + OBC) 1–300	301–600
19.06.2010	(Saturday)	**STREAM-A (General+OBC)**	601–900	901–1200
20.06.2010	(Sunday)	**STREAM-A (General+OBC)**	1201–1500	1501–1800
21.06.2010	(Monday)	**STREAM-A (General+OBC)**	1801–2100	2101–2400
22.06.2010	(Tuesday)	**STREAM-A (General+OBC)**	2401–2700	2701–3000
23.06.2010	(Wednesday)	**STREAM-A (General+OBC)**	3001–3300	3301 and onwards

1. Any change in the venue/schedule of counselling will be communicated to the qualified candidates in counselling call letter. The information will also be available on ICAR website: http://www.icar.org.in at the time of declaration of result.

2. **In case all the seats are exhausted before all the candidates called for personal appearance/counselling are covered, the counselling 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.**

3. **Candidates shall have to deposit fee by Cash as well as submit Original Certificates to the Registrar of the University as soon as the seat is allocated on the day of Counselling.** A candidate will be required to deposit cash of Rs 2,000/- (Rupees two thousand only) as part fee to the Registrar of the allotted University. The balance amount of the University fee will be deposited by the candidate while reporting for registration in the University on the date specified by that University. Failure to deposit fee and original certificates (Mark sheets and Certificates of X and XII class along with Date of Birth Certificate and Character Certificate) to the allotted University will forfeit his/her claim for admission. SC/ST and PH, candidates will have to produce Original Caste/Physically Handicapped Certificate. Candidates from Under Privileged states (UPS) will have to produce original domicile certificate issued by the Competent Authority. In case of OBC candidates availing the benefits of reservation in Central Deemed Universities, the candidate has to satisfy the following criteria:

   • Their sub-caste must tally with the Central list of OBC. Original Central OBC Caste certificate along with declaration has to be produced during counselling.

   • The OBC candidate should not belong to creamy layer. The proof of non creamy layer and three years of income tax returns of their parents shall be verified by the University Authority before their admission (Original certificates have to be produced).

   The candidates while reporting for counselling must bring with them all the above required documents in original as well as photocopies thereof along with part fee in cash and counselling intimation letter issued by the ICAR.

   The counselling 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 counselling in central universities.

4. **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.**

ANNEXURE-XIV

INDIAN COUNCIL OF AGRICULTURAL RESEARCH
KRISHI ANUSANDHAN BHAWAN-II, PUSA, NEW DELHI – 110 012
(Counseling Performa for Admission to U.G. Programme - 2010-11 Session)

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 01.01.1988 and after 01.01.1994)

6. Address for Correspondence: .....

7. Permanent address: .....

8. Phone No..... 9. State of Domicile as in the Application Form: .....

10. Subject of choice in which admission is requested (in the order of preference):

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

11. Preference of University

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

12. Category: ..... Gen./ SC/ ST/ PH/ Underprivileged States (UPS) (attach certificate in case of SC/ST/PH/ UPS)

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

14. 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 PCM:.....% PCB:.....% PCA:.....% PCMB:.....%

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 Yes/ No

(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: .....

Eligibility : Eligible Not Eligible

(SIGNATURES OF THE CHAIRMAN, COUNSELING COMMITTEE)

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

SIGNATURE OF THE UNIVERSITY REPRESENTATIVE)

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

Self/ authorized representative accept the course & University as above allotted to me.

Date: .....

Place: ..... SIGNATURE OF THE CANDIDATE / REPRESENTATIVE

S.No.	Name of University
1	AAI DU, Allahabad
2	AAU, Jorhat
3	AAU, Anand
4	ANGRAU, Hyderabad
5	BAU, Kanke, Ranchi
6	BCKVV, Mohanpur
7	BHU, Varanasi
8	CAU, Imphal
9	CCSHAU, Hisar
10	CSAUA&T, Kanpur
11	CSKHPKVV, Palampur
12	Dr. BSKKV, Dapoli
13	Dr. PDKV, Akola
14	Dr. YSPUH&F, Solan
15	GBPUA&T, Pantnagar
16	IGKVV, Raipur
17	JAU Junagadh
18	JNKVV, Jabalpur
19	KAU, Thrissur
20	KVAFSU, Bidar
21	MAU, Parbhani
22	MA&FSU, Nagpur
23	MPKV, Rahuri
24	MPUA&T, Udaipur
25	Nagaland University SASARD Medziphema
26	NAU, Navsari
27	NDRI, Karnal
28	NDUA&T, Faizabad
29	OUAT, Bhubaneswar
30	PAU, Ludhiana
31	PSBVB, Sriniketan, Visva Bharti (W.B.)
32	SKRAU, Bikaner
33	RAU, Pusa
34	SKDAU, Sardar Krushinagar
35	SKUAST, Jammu

S.No.	Name of University
36	SKUAST of K, Srinagar
37	SVBVUA&T, Meerut
38	SVV University, Tirupati
39	TNAU, Coimbatore
40	TNV&ASU, Chennai
41	UAS, Bangalore
42	UAS, Bagalkot
43	UAS, Dharwad
44	UAS, Raichur
45	UBKVV, Cooch Behar
46	WBUAFS, Belgachia
47	AP Horti. Univ., Venkataramannagudem
48	RVSKVV, Gwalior
49	GADVASU, Ludhiana

STREAM – A (Agriculture/ BIOLOGY)	
Subject Code	Subject Name
01	Agriculture
02	Horticulture
03	Fisheries Science
04	Forestry
05	Home Science
06	Sericulture
STREAM – B (MATHEMATICS)	
07	Agriculture Engineering
08	Dairy Technology
09	Food Science & Technology
10	Agricultural Marketing, Banking & Co-operation

ANNEXURE-XV

To be deposited at the Counseling Counter during the same session

AIEEA-UG-2010
INDIAN COUNCIL OF AGRICULTURAL RESEACH
KRISHI ANUSANDHAN BHAWAN PUSA, NEW DELHI – 110 012.

(APPLICATION FORM FOR WAIT LISTING)

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			

Particulars

Name: | | | | | | | | | | | | | | | | | | | | | | | | | | |

(As given in Application form) **Darken the Stream**

Roll No.: | | | | | | |

Agri / Bio. **A.** ◯

Mathematics **B.** ◯

Rank | | | |

% 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

Phone number: .....

Name and Address

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

APPLICATION FORM

ICAR's 15th ALL INDIA ENTRANCE EXAMINATION FOR ADMISSION TO UNDER-GRADUATE PROGRAMME AND AWARD OF NATIONAL TALENT SCHOLARSHIP (AIEEA–UG–2010) IN AGRICULTURE & ALLIED SUBJECTS OTHER THAN VETERINARY SCIENCE FOR THE ACADEMIC SESSION 2010-2011

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) (write straight, not in cursive)

2. MOTHER's NAME (in Capital letters)

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

4. Choice of city of Exam Centre (Code No.)
00 01 02 03 04 05 06 07 08 09

5. School Board of Class XII
00 01 02 03 04 05 06 07 08 09

6. State of Domicile (Code No.)
00 01 02 03 04 05 06 07 08 09

7. State of domicile (Code Name)

8. Subjects taken in class XII (fill the applicable circle)
- Physics ◯
- Chemistry ◯
- Biology ◯
- Mathematics ◯
- Agriculture ◯
- Home Science ◯
- English ◯

9. Subject Group for Exam
- Agri ①
- Bio. ②
- Maths ③

10. Stream
- A. Agri/Bio. ◯
- B. Mathematics ◯

11. Sex
- Male ①
- Female ②

12. Date of Birth (DD/MM/YY)

Date	Month	Year
00 01 02 03	00 01 02 03 04 05 06 07 08 09	70 80 90 01 02 03 04 05 06 07 08 09

13. Category
- SC ①
- ST ②
- PH ③
- UPS ④
- OBC ⑤
- GEN ⑥

14. Question paper medium
- English ①
- Hindi ②

15. Place of Residence
- Village ①
- Town ②
- City ③

16. Type of Institution of Class XII
- Government ①
- Private ②
- Others ③

17. Nationality
- Indian ①
- Others ②

18. Write alphabetic code name of city of Exam Centre

19. Write % marks obtained in English in XII

20. Year of passing/appearing Class XII

21. Fill the % marks in class XII in

PCA or PCH	PCB
PCM	PCMB

22. Percentage of total aggregate marks obtained

Class X	Class XII (if passed)

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

Name .....

Address .....

.....

.....

State..... **PIN** .....

24. Signature of the candidate

25.

Paste one recent Passport Size photograph with gum or Fevicol

Do not PIN or STAPLE the Photograph

Photograph size 3.5 x 4.5 cm

U.G. APPLICATION FORM NO.

USE BLACK BALL POINT PEN TO DARKEN THE CIRCLES

SIDE-2

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

HOUSE NUMBER

APARTMENT/STREET/LANE/VILLAGE

POST OFFICE

CITY/TOWN/DISTRICT

27. PIN CODE

30. Details of Purchase of Information Bulletin (tick mark appropriate box) (Use black ball pen): From Sale Counter ☐ By Post ☐ By Downloading ☐

(a) By Demand Draft No.....dated.....Amount.....

Bank Branch Name with Address.....

(b) By cash Amount Rs.

.....

Name of the Sale Counter with Address.....

28. PHONE NUMBER

STD CODE PHONE NUMBER

MOBILE NUMBER

29. AMOUNT PAID FOR PURCHASE OF FORM

Rs. ☐☐☐

30. SEAL OF THE BANK/ SALE CENTRE/COUNTER

31. DECLARATION

I hereby solemnly and sincerely affirm that all the particulars stated by me in this Application Form are true and correct. I have not concealed any information. However, if any information furnished herein is fradulent, incorrect or untrue, I understand that I am liable to criminal prosecution and I also agree to forego my admission. Further that the selection and admission to the course is liable to be cancelled at any time during the entire degree programme. I agree to abide by the Rules and Regulations governing the Examination as contained in the Information Bulletin, which I have duly studied and understood throughly.

Date.....

Signature of the Candidate in running hand (NOT IN CAPITALLETTERS)

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 fradulent, I am liable to criminal prosecution.

Date..... Place.....

Signature of Father/Mother/Guardian* (*If father and mother not alive)

INDIAN COUNCIL OF AGRICULTURAL RESEARCH
KRISHI ANUSANDHAN BHAVAN-II
PUSA, NEW DELHI – 110 012

ICAR's 15th ALL INDIA ENTRANCE EXAMINATION FOR ADMISSION TO UNDER-GRADUATE DEGREE PROGRAMME & AWARD OF NATIONAL TALENT SCHOLARSHIP (AIEEA–UG–2010) IN AGRICULTURE & ALLIED SUBJECTS OTHER THAN VETERINARY SCIENCE FOR THE ACADEMIC SESSION 2010–2011

IDENTITY VERIFICATION CARD

Roll No. .....
(to be filled in by the Office)

Application Form No.

Date of Examination: 17 April, 2010

STREAM OF PAPER

(Specify AGRICULTURE in the space provided if Agriculture paper is opted in Stream - A)

(Stream - A Agri./Bio. group)
(Stream - B Mathematics group)

(_____)

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City of Exam Centre opted by candidate

Code No.

Name of the City of Exam Centre

Signature of candidate

NAME OF THE CANDIDATE

FATHER'S NAME

Attested by me: (to be signed by attesting officer) with seal

Name and address of attesting officer

Name:

Post held:

Address:

POSTAL ADDRESS IN CAPITAL LETTERS WITH PIN CODE OF THE CANDIDATE

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STATE :
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ACKNOWLEDGEMENT CARD

Application No. ..... Dated: .....

This is to acknowledge the receipt of your application for 15th 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 2010–2011

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

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

The Controller of Exams
Education Division
Indian Council of Agricultural Research
Room No. 226, Krishi Anusandhan Bhavan-II
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Postage stamp of Rs. 6.00
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AIEEA–UG–2010

IMPORTANT INFORMATION AT A GLANCE

1. Sale of Information Bulletin

(a)	On cash payment from Syndicate Bank branches	:	29.12.2009 to 16.02.2010
(b)	On cash from the offices of Registrars of State Agricultural Universities	:	29.12.2009 to 16.02.2010
(c)	By Post from Exam Cell, Education Division, ICAR, KAB-II, Pusa, New Delhi 110 012 D.D. of Rs. 450/- (including Rs. 50/- towards postal & handling charges) for General, OBC & UPS categories and Rs. 250/- (including Rs. 50/- towards postal and handling charges) for SC, ST & PH categories drawn in favour of Deputy Director General (Education), ICAR payable at New Delhi with a self addressed envelope (size 12"×10") without postage should be sent with the request.	:	29.12.2009 to 10.02.2010
(d)	Downloading of Application Form and 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 110 012 as hard copy along with a DD of Rs. 400/- for General, OBC & UPS categories and Rs. 200/- for SC/ST and PH categories	:	29.12.2009 to 16.02.2010
2. (a)	Last date of receipt of filled Application Forms in ICAR	:	16.02.2010
(b)	Last date of receipt of filled Application Forms from Remote Areas	:	23.02.2010
3.	Date of starting despatch of Admit Cards to the candidates	:	20.03.2010
4.	Date of Entrance Examination	:	17 April, 2010 (Saturday)
5.	Time schedule of Examination	:	10.00 AM to 12.30 PM
6.	Declaration of Result (likely date)	:	17.05.2010
7.	Tentative Schedule for personal apperance (Counselling) at New Delhi (Please see Annexure XII)	:	15 June to 23 June, 2010

N.B.:

If a candidate fails to get Admit Card for any reason, he/ she should download it from ICAR website: icar.org.in. A recent passport size photograph should be pasted on the computer downloaded Admit Card and it should be attested by Principal of the school/senior officer of the government. In case of further problem, contact the Controller of Exams, ICAR.

Candidate are advised to retain a photocopy of the filled Application Form for their personal record. It may be used at any time in support of having submitted application and also retain a copy of the Registration Receipt of Post Office.

Results are likely to be available on Internet at the following site by 3rd week of May, 2010

http://www.icar.org.in