

# Pre-PG ENTRANCE EXAMINATION – 2021

For Admission to Masters Degree Programme in Agriculture and Allied Sciences in State  
Agriculture Universities of Rajasthan



## GENERAL GUIDELINES

For Admission to  
M. Sc. Agriculture  
M. Sc. Horticulture  
M. Sc. Forestry  
M. Sc. Home Science/Community Science  
M. F. Sc. Fisheries Science



Conducted by

**SRI KARAN NARENDRA AGRICULTURE UNIVERSITY**

**Jobner-303 329**

**Jaipur- Rajasthan**

ऑनलाइन आवेदन फॉर्म बिना विलम्ब शुल्क जमा  
करने की अन्तिम तिथि : 17.05.2021

प्रवेश परीक्षा की तिथि : 11.07.2021

For any kind of disputes/ litigation, the jurisdiction relating to the admission process through JET/Pre P.G.  
and Ph.D. Entrance Examination-2021 will be of Hon'ble Rajasthan High Court, (Jaipur Bench), Jaipur.

## GENERAL GUIDELINES

The Pre-PG Entrance Examination is conducted for admission to different Masters Degree Programme in Agriculture and Allied Science offered by State Agriculture Universities of Rajasthan (AU, Kota, SKRAU, Bikaner, MPUAT, Udaipur, SKNAU, Jobner and AU, Jodhpur).

Candidates are advised to read all the instructions of the Pre-PG guidelines before filling online application form.

### 1.0 ONLINE SUBMISSION OF APPLICATION FORM

- Only online application form will be accepted on <http://www.jet2021sknau.com>
- The online application form can be filled as per schedule dates (ANNEXURE-IV) of admission process and instructions given at point no. 4.0.
- The candidate can edit the application form till given date except the information related to fee. **Do not disclose the password to any one as he/she may change your details and misuse it.** The organizers will not be responsible for such changes and consequences thereon.
- **Deposition of application fees:** The fee is Rs. 2800/- (excluding bank charges if any) for UR/ OBC/ MBC/EWS candidates and Rs. 1400/- (excluding bank charges if any) for SC/ST/SAP (40 % and above disability) candidates. **Amount is to be deposited online only. This amount is not refundable/ transferable/ adjustable in any case.**
- There will be three papers, one common for admission to M. Sc. Ag., M. Sc. Hort. and M. Sc. Forestry, second for M.Sc. (Home Science/Community Science) and third for M. F. Sc. You have to select the one out of three.

### 2.0 ELIGIBILITY CRITERIA FOR ADMISSION

- A candidate must ensure that he/she is eligible for admission to various courses before filling the online application form. If a non-eligible candidate is admitted due to any reason, then the admission of such candidate will be cancelled as soon as the mistake is detected even at later stage. Various eligibility criteria for admission through Pre-PG are as under:

#### 2.1 EDUCATIONAL QUALIFICATION:

- A candidate must have secured at least 55% marks or equivalent OGPA in the four years undergraduate qualifying degree examinations. A relaxation of 5% marks would be allowed to candidates belonging to SC/ST/OBC (Non creamy layer)/MBC/EWS/SAP categories. **The candidates taking the advantage of 5% relaxation will not be considered in UR category.** Degree/ Provisional degree/Transcription certificate is essential at the time of filling the option form.
- Candidates who have appeared at any of the aforesaid qualifying examinations and whose results have not been declared before the commencement of the Pre-PG shall provisionally be allowed to appear in the examination. The result of the examinations **i.e. PDC and Transcript is essential at the time of filling the option form.**
- Candidates who have completed their UG Degree programme through JET / National level/ State level entrance examination or the candidates completed their degree programme from SAU,s and their constituent colleges of Rajasthan.

#### 2.2 DOMICILE CRITERIA/RESIDENTIAL REQUIREMENT

The Examination is open to the candidates of Rajasthan domicile only or a candidate must fulfil the following conditions for admission:

- The candidate must have studied for the last three years continuously as a regular student in recognized institution in Rajasthan i.e. passed 10<sup>th</sup> and 10+2 (in the qualifying subjects) from schools located in Rajasthan.

**OR**

- Natural Father/Mother of the candidate has been continuously residing in Rajasthan for a period of last 10 years and the candidate has studied for at least 5 years during this period in the recognized educational institution in Rajasthan.

**OR**

- The candidate must be a bonafide resident of Rajasthan. He/She may be presently studying in any of the states other than Rajasthan.

**OR**

- The candidate is a son/daughter of a serving or retired employee of (a) Government of Rajasthan and Officer of All India Services of the State Cadre of Rajasthan or (b) Undertaking/ Corporation/ Improvement Trust/ Municipal Bodies duly constituted by the Government of Rajasthan by an act of Law or (c) any of the State Universities in Rajasthan or Board of Secondary Education, Rajasthan provided that the employee has worked in Rajasthan for **three years preceding the last date of submission of the application.**

**OR**

- Candidate is a son/daughter of a permanent or retired employee of Indian Defence Service (Army/Navy/Air force) and the employee is either of Rajasthan origin irrespective of his/her place of posting or is posted in Rajasthan at the time of last date of the application for admission provided that in case the defence personnel is of Rajasthan origin, a Certificate has to be submitted by him/her from the employer to the effect that his/her State of origin is Rajasthan at the time of entry in to service.

**OR**

- Candidate is a son/daughter of serving/retired employee of **Para-Military Forces of India** and the employee is either of Rajasthan origin irrespective of his/her place of posting or is posted in Rajasthan at the time of last date of application for admission provided that in case of Para-Military Personnel from the Rajasthan origin, a certificate has to be submitted by him/her from the employer to the effect that his/her State of origin is Rajasthan at the time of entry into service.

**OR**

- Candidate is a son/ daughter of a Judge of Rajasthan High Court subject to that he/she submit an undertaking/affidavit stating that such benefit is not claimed or availed by them in any other State.

**Note:**

- The relevant original documents / certificates which are the basis of eligibility of the candidate are to be furnished by the candidate at the time of registration in the college along with one self-attested set of above documents and photograph.
- The certificate of bonafide resident of Rajasthan will have to be duly signed by the District Magistrate of the concerned District or officer authorized by him, and must bear the authenticated photograph of the candidate.

- In case of serving personnel, where in-service conditions have resulted into eligibility, a certificate of the employer will have to be submitted by the candidate, with appropriate authentication, identification and verification.

### 3.0 RESERVATION OF SEATS

- The reservation of seats for various categories will be as per the rules of Government of Rajasthan and subsequently adopted by **State Agricultural Universities**.
- The caste certificate must bear the photograph of the candidate and must be issued by the competent authority.
- In case of OBC, the certificate should not be older than **One Year** and it must clearly indicate non creamy layer. Such certificate along with affidavit of non-creamy layer should not be before **10.03.2020**.

**3.1** Reservation towards of defence personnel will be in following priority order (Submit certificate in format as per ANNEXURE-I or having certificate details. Certificate with incomplete information will not be considered for defence ward benefit). In pursuance to Deputy Secretary Agriculture (Gr. III) letter No. प. 3(9) कृषि-3/2018 जयपुर दिनांक 03.07.2018.

**Priority - I** : Widows/Wards of Defence Personnel Killed in Action.

**Priority- II** : Wards of disabled in action and boarded out from service.

**Priority-III** : Widows/Wards of Defence Personnel who died while in service with death attributable to military service.

**Priority-IV** : Wards of disabled in service and boarded out with disability attributable to military service.

**Priority-V** : Wards of Ex-Servicemen and serving personnel who are in receipt of Gallantry Award: [i. Param Vir Chakra; ii. Ashok Chakra; iii. Maha Vir Chakra; iv. Kirti Chakra; v. Vir Chakra; vi. Shaurya Chakra; vii. Sena, Nau Sena, Vayu Sena Medal; viii. Mention-in-Despatches].

**Priority-VI** : Wards of Ex-Servicemen.

**Priority-VII** : Wives of (i. defence personnel disabled in action and boarded out from service; ii. defence personnel disabled in service and boarded out with disability attributable to military service; iii. ex-servicemen and serving personnel who are in receipt of Gallantry Awards).

**Priority-VIII** : Wards of Serving Personnel.

**Priority- IX** : Wives of Serving Personnel.

- The domicile requirement for the wards of the Defence personnel from the State of Rajasthan but serving in other State is waived off. For wards of Defence personnel from other State but serving in the State of Rajasthan, the domicile condition is waived off to enable them to be selected in general quota. However, they would not be eligible for the above mentioned concessions.
- 50 % of the reserved seats of defence quota will be earmarked for the girls. In case of non-utilization by girls, the vacancies would revert back to the boys' category.
- Candidates are requested to upload the valid relation certificate issued by competent Army authority where priority should be clearly mentioned. Please note that Army Canteen Cards or ID cards, PPO, etc. will not be considered as valid document for defence ward benefit.

#### 4.0 INSTRUCTIONS FOR FILLING ONLINE APPLICATION FORM

The application will be accepted online only. The process of online submission of application form will be available at the website <http://www.jet2021sknau.com> link of this website will also be available on SKNAU, Jobner website [www.sknau.ac.in](http://www.sknau.ac.in). The examination schedule is given in ANNEXURE-IV separately.

Candidates must perform the following activities while submitting the online application form:

- Date of commencement for filling the online application : 24.03.2021
- Last date for filling and online depositing the application forms without late fee : 17.05.2021
- Last date for filling & online depositing the application forms with late fee Rs. 500/- : 22.05.2021
- Last date for editing the application form : 24.05.2021

#### Step-1: Off line preparation for filling the Online Application Form:

Candidates are advised to go through these instructions before filling the application form, he or she must keep all relevant documents ready to avoid any reason for non accepting the form by the system.

- To upload photo and signature online with application form, scan a recent photograph not older than six months showing the date and name on the photograph of 5H x 4W cm size. Paste the photograph on plain paper and sign below the photograph 2H x 4W cm size. Scan it in jpg/ jpeg/ pjpeg /png/ bmp /tif /gif format with 80 pixels per inch resolution. The image size of photo with signature should be in between 30 to 50 KB. Sample image is already given on the web site. Image of the candidate will be displayed after upload. The Photograph will be displayed after proper uploading. All other documents should be uploaded in "**PDF**" format with 100 to 200 KB size.
- Fee concession certificate i.e. caste category and/or specially disabled person certificate indicating 40% and above disability should be scan in "**PDF**" format having size **100 to 200 KB**.
- Scan mark sheets of X and XII examination and PDC (if passed already) of UG in "**PDF**" format having size **100 to 200 KB**.
- Mobile number on which candidate wants to get SMS related to this examination from Coordinator office. **All the information will be sent through SMS on this mobile**. Use your own or close relative mobile number and avoid mobile number of Coaching Centre and E-Mitra. Not more than three applications will be accepted on a single mobile number.
- **In case non availability of mobile number or change in mobile number or network problem candidate will not get the information for which Coordinator office will not bear any responsibility.**

#### Step-2: Depositing the fees

- Candidate must read the instructions given on the web site carefully.
- Pre-PG application form fee is Rs. 2800/- + Bank charges, if any for all the candidates. For candidates of SC/ST/SAP (40% and above disability) of Rajasthan, the fee will Rs. 1400/- + Bank charges, if any. Application form fee **amount is to be deposited online only. This amount is not refundable/ non-transferable/ non-adjustable in any case.**
- Deposit the fees from your own **or** close relative account/credit/debit card and note down transaction detail including Bank account number, transaction ID and date for refund if any. Avoid the account **or** credit/debit card of E-Mitra **or** any other agency. If use in compulsion, then note down transaction details including Bank account number, transaction ID and date to avoid difficulty in case of refund, if any.

- Candidates are advised to keep the details of bank account viz., Name of the bank and branch, account holders' name, number, type of the account, etc. for ready reference in near future correspondence.

### Step-3: Filling of Online Application Form

- The entries of online application form must be filled as required. Check all entries & spelling before final submission.
- Candidate should ensure that the photo and signature belongs to the same person i.e. his/her only.
- The changes (if required) will be allowed in online application form up to a given date using registration number and password. **Keep the password very safe as anyone can change your details and misuse it. Due to this for any change in your application form coordinator office will not be responsible. Do not share the password details.**

### Step-4: Printing of application form

- Click the Print button on the web portal and get print of application form. Keep this print for your record. If print application form option is not available it means your application is not successfully submitted.
- **Candidates need not to send hard copy of filled application to the JET Office.**

## 5. ADMIT CARD

Admit card will be available on web site <http://www.jet2021sknau.com> from given date in the schedule to till the commencement of exam. **No admit card will be sent by post or personally to the candidates.** The Coordinator reserves the right to withdraw the permission granted by error to a candidate who is not eligible to appear in the examination even though the admission card has been issued and produced by the candidate before the centre superintendent.

## 6. EXAMINATION SCHEME

In the very nature of competitive examination, no syllabus can be prescribed. It is an exercise to pick up the best. However, a broad outline is given as appended in **ANNEXURE-II**. There would be a single question paper for each Pre-PG examination for all the candidates' wants admission in different subjects of that stream.

The Question Paper would be covering the most of the subjects studied in undergraduate degree programme.

**Broad outline of subject content is given in the syllabus.**

Unit	Pre-PG	No. of questions
	<b>Agriculture/Horticulture/Forestry</b>	<b>100</b>
1.	Agromony	10
2.	Genetics and Plant Breeding	10
3.	Soil Science and Agricultural Chemistry	10
4.	Plant Pathology + Nematology	10
5.	Horticulture	10
6.	Forestry	10
7.	Entomology	08
8.	Biochemistry + Biotechnology + Plant Physiology	08
9.	Extension Education	08
10.	Agricultural Economics + Agricultural Statistics	07

11.	Animal Husbandry	04
12	Agricultural Engineering	05
	<b>Home Science/ Community Science (Community &amp; Applied Science)</b>	<b>100</b>
1.	Family Resource Management	20
2.	Human Development and Family Studies	20
3.	Foods and Nutrition	20
4.	Home Science Extension and Communication Management	20
5.	Textiles and Apparel Designing	20
	<b>Fisheries Science</b>	<b>100</b>
1.	Aquaculture	20
2.	Fisheries Resource Management	20
3.	Fish Health Management and Aquatic Environment Management	20
4.	Fish Processing Technology and Aquaculture Engineering	20
5.	Basic Sciences (Fisheries Extension, Economics, Statistics, Biochemistry and Communication Technology)	20

- The candidates desiring admission in M. Sc. Agriculture/ Horticulture/ Forestry have to attempt the paper of Pre-PG Ag., those for M.Sc. Home/Community Science have to attempt Pre-PG Home Science/Community Science and those for M. F. Sc have to attempt Pre-PG Fisheries.
- The question paper in the form of question booklet will be only in English and consists of 100 multiple choice type questions.
- The candidates are required to choose the most appropriate option and blacken the corresponding circle with the black ball point pen in the OMR sheet (Details for filling answer sheet are given on back side of OMR sheet). The test booklet may be used by the candidates for rough work and the circle/squares printed in it may be used for deciding the correct answer. Assessment will be made only on the basis of marking on the OMR sheet. At the end of examination candidates may carry question booklets with them.
- **Marking scheme:** Four marks will be awarded for every correct answer and one mark will be deducted for every wrong answer (Negative marking). If more than one option is chosen, it will be treated as wrong answer. No marks will be awarded or deducted for unmarked/ un-attempted questions.
- The merit list will be prepared on the basis of marks obtained in this test only.
- After obtaining the objections, if any question found ambiguous or having ambiguous answer (correct answer more than one no correct answer) will be dropped and marks of remaining questions will be used for merit preparation.

#### **7. WRITTEN EXAMINATION SCHEDULE:**

**Written examination will be conducted as per schedule from 11.00 AM to 1:00 PM on 11.07.2021**

The schedule of the test will be:

- Candidate should report to the examination centre : 10:00 AM
- No candidate will be permitted after : 10:45 AM
- Commencement of the examination : 11:00 AM
- Candidate will not be allowed to leave the examination hall before : 01:00 PM

**NOTE:** Information regarding college wise number of seats, filling of option form etc. for seeking admission will be displayed after declaration of result.

## 8.0 INSTRUCTIONS FOR WRITTEN EXAMINATION

- To avoid delay in reaching to centre on the day of examination, candidates are advised to visit centre or confirm the address of centre and mode of transport one day prior to the examination.
- The centre will be allotted from the selected cities of the Rajasthan. The centre will be allotted randomly to allot from the choice filled by the candidate through online.
- Request for change in examination center will not be considered.
- The examination will be held as per the programme given as above mention. The doors of examination centre will be opened at 10.00 AM.
- The candidate should ensure that he/she occupies the allotted seat at allotted place well in time only
- Any candidate occupying the seat of another candidate or change the place shall be treated as case of unfair means and his/her candidature will not be considered for admission

### 8.1 Candidates should bring the following documents/items at the time of examination

- i. The admit card downloaded from the website [http:// www.jet2021sknau.com](http://www.jet2021sknau.com) for your entry in the examination center and hall.
- ii. **Original recent photo ID: Bring one photo ID in original along with one passport size photo similar with uploaded in application form otherwise you will not be allowed to appear in examination. Photo ID preferably (Aadhar card/PAN card/Driving license or ID of the Institute affiliated to any recognized Board or University attended during 2020-21). Photo ID card of any coaching institute shall not be permissible as ID.**
- iii. Use only black ball point pen provided at the centre for marking the answers.

8.2 Candidates should not bring any text-book or notes, log tables, calculators, cell phone, purse/bag, watch, jewellery, any electronic gadget by which communication is possible and any other objectionable material with them in the examination hall. All kinds of electronic devices are not allowed in the campus of examination centre. Having any electronic device, paper, book or purse with you in exam hall, talking with any other person in examination hall or showing question booklet/ OMR/answers to others, removing any page from question booklet, seating at other than allotted seat and disobeying the instruction will be treated as unfair means.

### 8.3 Dress code:-

- Half sleeves shirt/ T- shirt (Boys), Half sleeves kurta / top(girls),Sandal or sleeper in feet. Wearing shoes, shocks, wrist watch, ear or nose pins, lockets in chain or any kind of ornament will not be allowed during examination. Wearing of specific dress of any coaching institute should be avoided.
- All jewellery should be removed at the home so that no problem may arises at examination centre, to remove the same and theft if any, Centers shall not be responsible for security of belongings of candidates. With jewellery candidate will not be allowed in examination centre.

### 8.4 Discipline and unfair means

- During the course of examination, the candidate shall be under the discipline and control of the Centre Superintendent and shall abide by the instructions issued during the examination by the invigilators or the Centre Superintendent from time to time.
- Candidate found acting in a manner, which in the opinion of the invigilator, is liable to give unfair advantage to another candidate, shall be treated as case of unfair means and his/her candidature will be cancelled.
- The Invigilators, Flying squad and Centre Superintendent shall be competent to take search of any candidate. A candidate possessing objectionable material or resisting search shall be punishable as per rules of unfair means and loose his/her candidature.
- Candidate resorting to use of unfair-means shall be turned out of the examination hall/room and his examination shall be treated as cancelled. The Centre Superintendent shall be the judge to determine



whether unfair-means have been resorted to. The centre superintendent will submit the report stating full facts of the case of unfair-means to the JET Coordinator for further necessary action, required if any.

- Examinees can use only the urinals available at the centre and earmarked for them. For this the candidate shall not leave the examination room without the permission of the invigilator and escort, permissible only in case of emergency.
- Smoking and consumption of other intoxicants by the candidates are strictly prohibited in the examination hall/room/centre and will be treated as unfair means.

**8.5 Question booklet/OMR Sheets:** Candidates should carefully read the instructions given in the question paper booklet and OMR before they begin to mark their answers.

- The question paper will be only in English language.
- Soon after the question booklet is given to the candidate, he/she should ensure before writing his role number that it is sealed and contains all the pages and no question is missing.
- No guarantee is given to the candidates regarding the order of the questions in question paper.
- Entry of booklet number and series code on OMR should be done only after getting proper question booklet and satisfying yourself.
- Question booklet/OMR sheet shall be replaced to candidate only when there is any printing defect/torn condition within 10 minutes i.e., up to 11:10 AM. Do not use Eraser, Correcting Fluid or Blade to make any correction in OMR.
- Before attempting the answers, the candidate shall write his/her Roll number and other details at the place provided for the purpose on the test booklet and OMR sheet. The candidate should indicate the answer by blackening the circle with black ball point pen provided for the purpose in the OMR sheet itself, otherwise his/her answer will not be evaluated. Candidate must ensure that their OMR has been duly signed by invigilator also.
- The candidate should not write his/her name or any sign/mark at any place on the OMR sheet, which may disclose his/her identity else there candidature will be cancelled.
- Sample of OMR is given in ANNEXURE-III.

**8.6 EVALUATION OF OMR SHEETS:** The OMR sheets will be evaluated and marks will be displayed as per schedule date given in ANNEXURE-IV.

- Four marks will be awarded for every correct answer and one mark will be deducted for every wrong answer (Negative marking). If more than one option is chosen, it will be treated as wrong answer. No marks will be awarded or deducted for unmarked/un-attempted questions.
- Candidate should note that there will be no re-evaluation of the OMR sheet.
- Candidate can challenge the answer key as per given schedule (objection on any question) by paying Rs. 500/- towards processing fees per question, the fees can be paid online through Debit/Credit/Net Banking etc. Candidate should note that the fee paid will be refunded if the challenge is found correct and forfeited if incorrect. However, no challenge will be entertained without receipt of processing fees.
- After obtaining the objections, if any question found ambiguous or having ambiguous answer, correct answer more than one, no correct answer will be dropped and merit will be prepared.
- Revised marks will be updated and filling the option form will be allowed as per schedule in ANNEXURE-IV

**NOTE:** Information regarding college wise number of seats, filling of option form, *etc.* for seeking admission will be displayed after declaration of result.

- The result of the test will be declared on specified date. No enquiries by email, telephone or post concerning the result will be attended by the Office of the JET Coordinator.

## **9.0 ELIGIBILITY FOR ONLINE OPTION FORM**

- All the candidates appeared in Pre-PG Entrance Examination-2021 will be eligible for filling online option form during the admission process, irrespective of marks obtained.

#### 10. 0 FILLING THE ONLINE OPTION FORM

- There is online option form fee of Rs 5000/-. The bank charges will be charged extra. Deposit the online fee from your own or relatives bank account/ debit or credit card. Avoid E-Mitra account or do not close the account so you may not face any problem in refund if any.
- **Candidate must read the instructions and Schedule in ANNEXURE-IV very carefully before filling up the option form to avoid any mistake.**
- Candidate must keep ready the information and list of subject along with colleges with order of choice on a separate paper and mark sheets or desired certificates if any.
- **There will be no provision for any change/modification after final submission of the option form however candidate may edit the option up to stipulated date.**
- **In case of Pre-PG Agriculture the eligibility of candidates for different subjects are as follows:**

S. No.	Degree programme	Basic qualification	Subjects to be attempted in Entrance examination
1	M.Sc. Agriculture	B.Sc. (Hons) Ag.; B.Sc. (Hons) Hort. (Except for M.Sc. Agronomy, Livestock Production & Management and Animal Production) and B.Sc. (Hons) Forestry (Except for M.Sc. Agronomy, Livestock Production Management, Animal Production, PBG, Ag. Eco., Ext. Edu., Statistic, Nematology)	Pre-PG Ag.
2	M.Sc. Horticulture	B.Sc. (Hons) Ag. / B.Sc. (Hons) Hort. / B.Sc. (Hons) Forestry	
3	M.Sc. Forestry	B.Sc. (Hons) Forestry	
4	M.Sc. Fisheries	B.F. Sc.	Pre-PG M.F. Sc.
5	M.Sc. Home Science/ Community Science (Community & Applied Science)	B.Sc. (Hons) Home Science/Community Science/ Food Nutrition and Dietetics	Pre-PG H. Sc. / CS

- Candidate willing to seek admission **on payment seat** should also fill the option for the same with appropriate number of choice. These seats will also be filled from the same merit.
- Details about college, fees and hostel facility may be obtained from “**About the Colleges**” of this web site or he/ she may contact to the college directly.
- Fees of Rs. 5000/- deposited with option form (online) will be adjusted in college fees of the candidate. **In case of not reporting in time this amount will be forfeited** i.e. neither it will refunded to the candidate nor transferred to the institute where candidate admitted provisionally.
- **Candidate is advised to check the correctness of information before submitting the option form. In case of any wrong information the admission will be cancelled at college level and candidate will be treated as not reported and this seat will be allotted to another candidate in next counselling and option form fee will be forfeited.**
- If candidate will not get admission in any of the institute filled in option form the fee will be refunded through the same channel where from he/she paid the fees.

- **In case amount is deposited from E-Mitra or any other agency account take all bank details where from this amount has been deducted. As amount will be refunded in this account and he may not refuse to pay the refund. Jet Coordinator Office will not be responsible for providing the bank details of refund amount.**

### **11.0 Seat Allotment**

- Seat in college and universities will be allotted on the basis of marks obtained in Pre PG Entrance Examination, choice filled by candidate in option form and reservation policy. The roster will start from next point where admission was stopped last year.
- In case of any tie, the tie will be broken on the basis of higher marks obtained in UG then in 12<sup>th</sup> followed by in 10<sup>th</sup> and then more in age will be given priority.
- Through above option form, three times seats will be allotted.
- **The reserve seats will be allotted to reserve candidates only based on merit, 200 point roster and candidate choice, if option form of those category candidates is available. Else, the seat will be allotted of respective reserve seats followed same pattern of merit, 200 point roster and candidate choice, where from that seat get reserve.**

### **11.1 Upward Assessment**

#### **First upward assessment and second counselling:**

- If the candidate gets institution in first allotment, either deposit the fees of that institution online or apply for upward assessment in case he/she wants to change the institution. Candidates have to pay non-refundable online fee of Rs 800/- for upward assessment else, the candidate will be treated as not reported.
- The seats of not reported candidates and candidates applied for upward assessment and gets other institution, will be filled by the remaining candidates and candidates applied for upward assessment on the basis of merit. The reserve seat will be filled by the same category candidates, if no such candidate is available, the roster will start from next point where admission was stopped last year.

#### **11.2 Second upward assessment and third counselling:**

- Candidates get seat in second allotment (upward or new) have to either deposit the fees of that institution online or apply for further upward assessment. In case he/she wants to change the institution have to pay online fee of Rs 800/- else candidate will be treated as not reported.
- The seats of not reported candidates and candidates applied for upward assessment and gets seat in the other institution their seat will be filled by the remaining candidates and candidates applied for upward assessment on the basis of merit. The reserve seat will be filled by the same category candidates, if no such candidate is available, the roster will start from next point where admission was stopped last year.
- On or before stipulated date the candidates get seat in third allotment has to deposit the fees of that institution online else candidate will be treated as not reported.
- The upward assessment fee of Rs.800/- is non-refundable whether candidates get better choice from the option form or not.
- After upward assessment if he/she get any other college or allotment remain unchanged, he or she will be required to accept final allotment and deposit the requisite fee of allotted college otherwise the admission will be treated as cancelled and amount of Rs.5000/- deposited will be forfeited.

## **12.0 REPORTING IN THE INSTITUTION**

- All original documents are to be submitted to the allotted college at the time of registration.
- Candidate accepted the allotment and deposited online fee has to report in the institution on the schedule date along with all original documents and their self-attested copies viz. 10<sup>th</sup> & 12<sup>th</sup> mark sheets and certificates, UG PDC/degree, domicile certificate, reservation certificate, self-declaration (in case of OBC) certificate, recent income certificate and fee deposition receipt, etc.
- Failing to report on the given date or lacking any document will be treated as not reported candidate and the option form fee will be forfeited. Vacant seat will be filled by other candidate in next counselling. Institution fee (other than option form fee) **will be refund only if the seat is filled.**

## **13.0 ONLINE FINAL COUNSELLING**

- The seats remain vacant after above reporting same will be filled through final online counselling
- Online option form will be invited as per the schedule in **ANNEXURE-IV**
- Candidates who did not get admission or not reported candidates will be eligible for final online option form. Candidates reported in the institutions will not be eligible.
- Online option form for counselling may be filled after paying Rs 5000/- + the bank charges.
- Candidate who did not get seat through previous option form, need not to pay the option form fee again but, have to fill the fresh option form.
- Vacant seats will be filled by the category candidates if available else from the candidates where from the seat get reserve using merit and above option form.
- Candidate has to deposit the fee of allotted college online and report in the college on given date along with all original documents and their self-attested copies.
- Seats of not reported candidates will be filled from remaining candidates filled the option form by the category candidates if available else from the candidates wherefrom the seat get reserve.
- Candidate has to deposit the fee of allotted college online and report in the college on given date along with all original documents and their self-attested copies.
- Candidate has to report in the college on given date. The admission process will be closed with this process even seat remains vacant. The last date of admission process is **25-08-2021**.

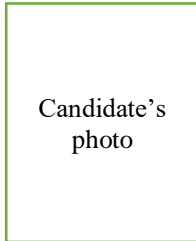
**Candidates are advised to visit the website for changes in dates, system, or any other information from time to time. The coordinator will not be responsible for not reaching the changes to the candidate in time.**

**ANNEXURE –I**  
**CERTIFICATE FOR DEFENCE WARDS/WIDOWS**

This is to certified that Mr./Ms./Widow (Name of candidate).....born on dated.....son/daughter/widow of (Father's/Mother's/Husband's Name) .....worked in the .....(Army/Navy/Airforce). He/She .....belong to defence priority ..... (I/II/III/IV/V/VI/VII/VIII/IX).

- Priority - I** : Widows/Wards of Defence Personnel Killed in Action.  
**Priority- II** : Wards of disabled in action and boarded out from service.  
**Priority-III** : Widows/Wards of Defence Personnel who died while in service with death attributable to military service.  
**Priority-IV** : Wards of disabled in service and boarded out with disability attributable to military service.  
**Priority-V** : Wards of Ex-Servicemen and serving personnel who are in receipt of Gallantry Award: [i. Param Vir Chakra; ii. Ashok Chakra; iii. Maha Vir Chakra; iv. Kirti Chakra; v. Vir Chakra; vi. Shaurya Chakra; vii. Sena, Nau Sena, Vayu Sena Medal; viii. Mention-in-Despatches].  
**Priority-VI** : Wards of Ex-Servicemen.  
**Priority-VII** : Wives of (i. defence personnel disabled in action and boarded out from service; ii. defence personnel disabled in service and boarded out with disability attributable to military service; iii. ex-servicemen and serving personnel who are in receipt of Gallantry Awards).  
**Priority-VIII** : Wards of Serving Personnel.  
**Priority- IX** : Wives of Serving Personnel.

**50% of the reserved seats of defence quota will be earmarked for the girls.**



**Signature of competent Authority with seal**

## अनुलग्नक – I

### सैनिकों के बच्चों/विधवाओं के लिए प्रमाण पत्र

यह प्रमाणित है कि श्री/सुश्री/विधवा (अभ्यर्थी का नाम) .....जन्म तिथि.....  
पुत्र/पुत्री/विधवा (सैनिक पिता/माता/पति का नाम) .....ने सेना की  
(थलसेना/नौसेना/वायुसेना).....में काम किया है। ये सैन्य सेवा के लाभ हेतु प्राथमिकता.....  
(I/II/III/IV/V/VI/VII/VIII/IX) से संबंधित है।

**प्राथमिकता-I** – युद्ध के दौरान मारे गए सैनिकों की विधवाओं/बच्चे

**प्राथमिकता- II** – युद्ध या सैनिक कार्यवाही के दौरान अपाहिज हो गये एवं जिस कारण सेवा से बाहर कर दिया गया उनके बच्चे

**प्राथमिकता- III** – सेना में रहते हुए मृत्यु हो गई एवं सेवा काल के दौरान सैन्य कारणों से मृत्यु हो गई उनके विधवाओं/बच्चे

**प्राथमिकता- IV** – सेवा काल के दौरान अपाहिज हो गये एवं सैनिक कार्यवाही के दौरान अपाहिज होने के कारण सेवा से बाहर कर दिया गया उनके बच्चे

**प्राथमिकता- V** – पूर्व सैनिकों एवं सेवारत सैनिकों जिन्होंने गैलेंट्री अवार्ड प्राप्त किया उनके बच्चे {i. परम वीर चक्र, ii. अ गोक चक्र, iii. महा वीर चक्र, iv. कीर्ति चक्र, अण्वीर चक्र, vi. भोर्य चक्र, vii. सेना, नौ सेना, वायु सेना मेंडल, viii. उल्लेख-इन-डिस्पैच}

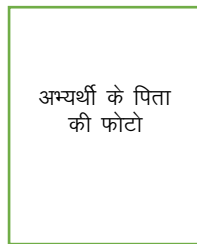
**प्राथमिकता- VI** – पूर्व सैनिकों के बच्चे

**प्राथमिकता- VII** – की पत्नियों {i. युद्ध या सैनिक कार्यवाही के दौरान अपाहिज हो गये एवं जिस कारण सेवा से बाहर कर दिया गया, ii. सेवा काल के दौरान अपाहिज हो गये एवं सैनिक कार्यवाही के दौरान अपाहिज होने के कारण सेवा से बाहर कर दिया गया, iii. पूर्व सैनिकों एवं सेवारत सैनिकों जिन्होंने गैलेंट्री अवार्ड प्राप्त किया}

**प्राथमिकता- VIII** – सेवारत सैनिकों के बच्चे

**प्राथमिकता- IX** – सेवारत सैनिकों की पत्नियों सैन्य कोटे की आरक्षित 50 प्रतिशत सीटें लड़कियों के लिये चिह्नित की गई है।

सैन्य कोटे की आरक्षित 50 प्रतिशत सीटें लड़कियों के लिये चिह्नित की गई है।



सील के साथ सक्षम अधिकारी का हस्ताक्षर

## ANNEXURE-II

### Broad Outlines of Syllabus for Masters Degree Programme- 2021

#### **SYLLABUS:**

**Objective of such type of Entrance Test is to select the best candidates; therefore, no syllabus can be prescribed, however, a broad outlines are given as follows:**

#### **Pre-PG Agriculture/ Horticulture/ Forestry**

##### **1. Agronomy:**

Agro-climatic zones of India and Rajasthan, adaptation and distribution of crops. Weather and climate. Basics of weather forecasting. Modern concepts of tillage. Management of crop residue, soil organic matter, bio-fertilizers, green manuring, oil cakes, fertilizers. Consumption of straight and complex fertilizers, foliar application. Plant nutrients: occurrence, cycling in soils and their availability. INM concept and vermi-compositing. Cropping and farming systems. Sustainable agriculture: concept and details. Organic farming: principles, objectives, certification, labeling and accreditation process. Water resources of India and Rajasthan. Methods of irrigation. Irrigation efficiencies. Water management in crops. Quality of irrigation water. Agricultural drainage: methods. Dry land agriculture in India and Rajasthan. Concept, importance, objectives and benefits of watershed. Agronomy of important crops of *kharif*, *rabi* and *zaid* seasons of Rajasthan. Weed biology and ecology, crop-weed association. Problem of weeds in Rajasthan and their physical, cultural, biological and chemical control. Integrated weed management. Herbicide selectivity. Adjuvants. Geo-informatics, nano-technology and precision farming; concepts, techniques & their applications in agriculture.

##### **2. Genetics and Plant Breeding:**

Variation – its causes and importance. Pollination and fertilization. Cell structure and division. Mendel and his work. Gene interactions. Multiple alleles and blood groups. Linkage, crossing over and mapping of chromosomes. Gene mutations, chromosomal aberrations, polyploidy and their role in crop improvement. Cytoplasmic and chromosomal inheritance. Sterility and incompatibility and their application in plant breeding. Heterosis and its exploitation for crop improvement. Germplasm conservation and exploitation. Breeding methods of self, cross and vegetatively propagated crops. Breeding for biotic and abiotic stresses. Application of genetic engineering and biotechnology in crop improvement. Seed, its types and classes. Seed certification: principles and procedures. Minimum seed certification standards. Seed production of important field crops.

##### **3. Soil Science and Agricultural Chemistry:**

Soil as a medium for plant growth, soil composition, formation, profile, rocks and minerals. Soil survey, classification and Remotesensing. Physical properties of soil-texture, structure, soil moisture, air and temperature in relation to plant growth. Chemical properties of soil-clay minerals, organic and inorganic colloids, cation exchange phenomenon. Soil reaction and buffering capacity. Soil erosion, conservation. Problematic soils. Essential nutrients, their functions, deficiency symptoms and their availability. Soil fertility evaluation, nutrient recommendations. Manures and fertilizers.

#### **4. Plant Pathology:**

Importance of microbes and plant pathology in agriculture. Micro-organisms (Fungi & bacteria) and their classification, nutrition, growth and reproduction. Host-pathogen relationship. Morphology, reproduction, nutrition and nomenclature of fungi. Classification of plant pathogenic fungi. Symptomology, disease cycle. Important disease and their management- cereals, pulses, oil seeds, fruits, vegetables, spices, medicinal and aromatic, forest plant and cash crops. Integrated disease management and principles of plant disease control and novel approaches for disease management.

#### **5. Nematology:**

Introduction and brief history of plant parasitic nematodes, their morphological structure, biology, ecology and various physiological process. Symptomatology and nematode diseases with special reference to root-knot, reniform, citrus, ear cockle, tundu and molya and their management. Interaction of plant parasitic nematodes with other micro-organisms like fungi, bacteria and viruses, etc.

#### **6. Horticulture:**

Floriculture- History of ornamental gardening, garden styles, garden features and important commercial cut flowers and loose flowers cultivation. Uses of ornamental annuals, trees, shrubs and climbers. Vegetables- importance in human diet, type of farming and classification. Raising of seedling in nursery and pro-tray. Cultivation of important vegetables. Protected cultivation. Pomology- Selection of site, preparation and layout of orchard, planting system. Principles of fruit production, propagation, cultivation of important fruits of Rajasthan. Methods of preparation of juices, squashes, jams, jellies and marmalades, preserves, squashes and pickles, canning and dehydration of fruits and vegetables. Seed spices – production technology. Important medicinal and aromatic plants of Rajasthan.

#### **7. Forestry**

Status of forests in India and Rajasthan. Forest: importance, types, classification, ecosystem, biotic and abiotic components, ecological succession and climax. nursery and planting technique, social forestry, farm forestry, urban forestry, community forestry, forest management, silvicultural practices, forest mensuration, natural regeneration, man-made plantations, shifting cultivation, taungya, dendrology, hardwoods, softwoods, pulp woods, fuel woods, multipurpose, tree species, wasteland management. Agroforestry – importance and land use system, forest soils, classification and conservation, watershed management, forest genetics and biotechnology and tree improvement, tree seed technology, rangelands, wildlife- importance, abuse, depletion, management, major and minor forest products including medicinal and aromatic plants, forest inventory, aerial photo interpretation and remote sensing, forest depletion and degradation – importance and impact on environment, global warming, role of forests and trees in climate mitigation, tree diseases, wood decay and discolorations, tree pests, integrated pest and disease management, biological and chemical wood preservation, forest conservation, Indian and Rajasthan State forest policies and acts, forest economics, joint forest management and tribology.



## **8. Entomology:**

Animal kingdom- Classification and nomenclature. Economic importance of Arthropods, insects and mites in particular. Management of insect-pest and mites in agriculture. Ecosystem and wild life preservation. Insect dominance. Anatomy and morphology of grass hopper. Insect reproduction and development; identification. Lac culture, sericulture and apiculture. Physical, mechanical, cultural, chemical, biological, legal and other modern approaches of insect pest management.

## **9. Biochemistry + Biotechnology:**

Chemistry of carbohydrates, lipids, proteins and amino acids. Chemistry of Nucleic acids and their functions. Outlines of metabolism of carbohydrate, lipid and protein. General characteristics of enzymes, coenzymes and secondary metabolites terpenoids, alkaloids and phenolics. Brief out lines of plant tissue culture and plant biotechnology DNA recombinant technology, transgenics Molecular markers and their application in Agriculture.

## **10. Plant Physiology:**

Cell: an overview, physiological functions of cell organelles, plant water relations, photosynthesis and photorespiration, Respiration, Transpiration, plant nutrition, physiology of flowering. Physiology of growth, PGRs and their role, biosynthesis and physiological responses. Post harvest physiology, Seed development, germination and dormancy. Climate change and stress physiology, hydroponics.

## **11. Extension Education:**

Extension Education- Definition, objectives and principles. Rural sociology: Meaning, definition, scope, social control and social change. Rural institutions- caste and family, rural leadership. Teaching-learning process. A.V. aids, teaching methods and their use in different situations. Programme planning and evaluation in extension education. Communication process and its elements. Diffusion and adoption of agriculture innovations. Pre-independence extension programmes in India: Gurgoan, Marthandam, Shriniketan and Sewagram projects. Developmental programmes and institutions- IRDP, CD, NES, Panchayati Raj System, T & V system, NATP, PMRY, SwarnJayanti Gram SwarajYojna, KVK, ATIC, IVLP and ATMA. Entrepreneurship development: concept and meaning. Government schemes and incentives for promotion of entrepreneurship. Contract farming and joint ventures, public private partnership.

## **12. Agricultural Economics:**

Meaning of utility, factors of production and their characteristics. Classical production function and law of diminishing returns. Factors affecting demand and supply. Price determination. Concept of elasticity and its measurement. Agricultural finance. Credit and credit institution. Agricultural cooperation. Nature and problems of agricultural marketing and prices. Regulated market. Marketing channels and price spread. Cooperative marketing. Nationalization of commercial banks. Economic principles of farm management, financial tools of farm management and farm planning and budgeting. Risk and uncertainty in agriculture. Importance of agri-business in Indian Economy. Discounted and undiscounted methods of project analysis. Marketing management.

### **13. Agricultural Statistics:**

Meaning and scope of statistics. Data summarization. Measures of central tendency and dispersion. Elementary idea of correlation and regression. Tests of significance. Field experimentation. Analysis of variance and its application in basic design of experiments.

### **14. Animal Husbandry:**

Importance of Livestock and poultry in national economy. Cattle management and housing of cattle, buffalo, sheep, goat, poultry and camel. Prevention and control of common livestock diseases. Classification of feeding stuff and computation of balanced ration. Important breeds of farm animals and poultry. Methods and systems of breeding. Principles and methods of selection. Purchase of dairy animals. Infertility and sterility, their causes and prevention. Hatching, brooding and feeding management in poultry. Hay and silage making.

### **15. Agriculture Engineering**

Introduction to Soil and Water Conservation, soil erosion, types, and method for control of soil erosion. Status of Farm Power in India, Sources of Farm Power, different type of engines, Familiarization with Power transmission system: clutch, gear box, differential and final drive of a tractor, Tractor types and farm implements. Familiarization with sowing and planting equipment, Familiarization with harvesting and threshing equipment. Classification of energy source agricultural sector, Familiarization with biomass utilization for biofuel, biogas plants, biodiesel and biooil production. Introduction of solar energy. Green house technology, Green house equipments, materials of construction for traditional and low cost green houses. Irrigation systems used in greenhouses, Important Engineering properties such as physical, thermal and aero & hydrodynamic properties of cereals, pulses and oilseed, their application in PHT equipment design and operation. Drying and dehydration;

### **Pre-PG Home Science/ Community Science**

#### **1. Family Resource Management:**

System approach to management. Management concepts: value, goals, standards. Management process. Resources-classification and characteristics. Communication-process, classification, barriers, Decision making process. Time management and work simplification. Money management. Housing and its importance, selection of site, orientation and zoning, factors considered while planning a house, building materials, house wiring-Electrical fittings and fixtures. Housing problems in India. Housing finance. Elements of art and principles of design, colour, home lighting, flower arrangement. Human wants and demands. Family budget, savings and investment. Consumer problems, consumers' rights and responsibilities, standardization, grading, labeling and packaging, unfair trade practices, consumer protection and welfare, Right to information. Marketing mix and marketing environment, marketing research. Product planning. Sales management. Entrepreneurship-definition, classification, importance, Government support. Selection, use and care of household equipment.

#### **2. Human Development and Family Studies:**

Meaning, purpose, scope and principles. Stages of growth and development. Developmental pattern and task of children till adolescence. Physical and motor development, cognitive, mental development, emotional, social and personality development. Moral development and guidance. Family: meaning and definition, functions of traditional and modern family, stages of family, lifecycle, expectations and specific roles of family members of each stage. Importance of family and child welfare. Classification and various areas of family and child welfare services in India and role of National and International

agencies. Theories of child development-Cognitive theory of Jean Piaget, Erikson's theory of psychological development. Early childhood care and development. Children with developmental challenges.

### **3. Food & Nutrition:**

Functions, Sources, deficiency and excess intake of energy, carbohydrates, proteins, fat, fat soluble and water soluble vitamins and minerals (Classification and chemistry of amino acids and carbohydrates). Interrelationship of nutrients. Cooking methods- merits and demerits. Methods, principles and advantages of food preservation. Meal planning: importance, factors to be considered, planning meals for family, modification of diet for various age, sex and income groups and physical and physiological conditions of body. Modification of normal diet to therapeutic diet. Diet during disease like fever, liver disease, cardiovascular diseases and metabolic disorders like overweight, underweight and diabetes. Assessment of nutritional status, nutritional problems arising from food habits. Role of National and International agencies for overcoming nutritional problems in India.

### **4. Home Science Extension and Communication Management:**

Meaning, aims, philosophy and principles of Home Science Extension Education. Problems of rural society. Concept and need of rural development. Audio-Visual Aids-Role and classification. Teaching methods- classification, advantages and limitations of each method, principles of extension teaching. Difference in teaching in formal and informal situation. Achievements and failures of community development programme. Panchayati Raj, Voluntary organization and their role in rural development, rural leadership. Concept, importance, elements and problems of communication, Meaning of adoption and diffusion. Meaning and characteristics of innovation. Stages and factors affecting adoption. Nature, role, meaning, principles and process of programme planning. Characteristics of good programme, problems of extension work and ways to solve them. Concept, importance and methods of evaluation, use of evaluation result in programme planning. Rural development programmes-ICDS, IRDP, TRYSEM, *Swarn Jayanti Gram Swarozgar Yojna* and MGNREGA, India's five year plans with special reference to rural development.

### **5. Textile and Apparel Designing:**

Classification, properties and basic concepts of production of textile fibre, yarn structure, complex and textured yarns, various fabric construction processes. Loom and its parts. Basic and fancy weaves. Printing and their methods. Dyes and their application, general and special finishes. Principles and process of laundering, laundry equipment's, water, soaps and detergents, bleaches, blues, stiffening agents and their uses, laundering and stain removal of different fabrics. Dry cleaning and storage of cloths. Social- psychological aspects and needs of clothing in the family. Changing needs of the family. Study of ready-made and tailor made garments in terms of finish, cost and quality. Clothing budget for the family of different income levels, size habits and needs. Principles in selecting fabrics, colours and textures for different age groups. Traditional textiles of India and embroidery. Flat pattern methods, shifting of darts by slash and pivot method. Principles and elements of design applied to apparel designing. Introduction of CAD, CAM. Application of CAD in Textile and Apparel Designing. Fashion Terminology, Fashion cycle, theories of fashion adoption, factors affecting fashion.

## **Pre-PG M.F.Sc:**

### **1. Aquaculture:**

Definition and scope of Aquaculture, Systems of aquaculture, Extensive, semi-intensive, intensive and super intensive aquaculture, organic aquaculture. Pre-stocking and post stocking pond management. Candidate species for aquaculture: IMC, Exotic fish species, air breathing fishes, culturable shell fish and cat fishes of fresh water and brackish water. An over view of sea farming and shore-based aquaculture in different parts of the world. Shore-based aquaculture and sea farming in India. Important cultivable fish and shellfish (seabass, mullet, milkfish, grouper, snappers, pearl spot, tiger shrimp, white shrimp, mud crab, mussel, clam, oysters (edible and pearl oyster), seaweeds, etc. World trade of ornamental fish and export potential. Fabrication, setting up and maintenance of aquarium, water quality management. Water filtration system– biological, mechanical and chemical filters. Aquarium plants and their propagation.

Fresh water and marine fish seed resources. Natural breeding of finfishes. Riverine spawn collection, storage of spawn, Spawn quality and quantity indices. Methods of breeding; Hypophysation of fishes. Fish pituitary gland. Treatment of eggs. Spawn rearing; Use of anesthetics in fish breeding and transport. Natural seed resources of shell fishes. Brood stock management and Maturation stages of *Macrobrachium rosenbergii* and *Penaeus* sp.

Principles of genetics and breeding, Gene, Mendel's law of inheritance, Gene interactions – Hybridization. Mutation, Chromosomal structure and aberrations. Linkage and crossing over. Cryopreservation, Selective breeding programs in aquaculture. Seed certification and quarantine procedures. DNA as genetic material, Chemistry of nucleic acids, Genetic code. Gene cloning and Transgenesis, Waste water treatment, Biofilters in aquaculture, Biofertilizers, Gene bank.

Nutritional requirements of cultivable fish and shellfish. Feed formulation and manufacturing. Forms of feeds: wet feeds, moist feeds, dry feeds, mash, pelleted feeds, floating and sinking pellets. Feed additives: binders, antioxidants, enzymes, pigments, growth promoters, feed stimulants. Candidate species of phytoplankton and zoo-plankton as live food organisms of freshwater and marine species.

### **2. Fisheries Resource Management:**

Major taxa of commercially important inland and marine finfishes and shellfishes. Morphological characters of commercially important fin fish and shell fishes of freshwater and marine waters of India. Anatomy of important groups of shellfish and finfish, Digestive system and digestive glands. Circulatory, Respiratory, Nervous, Urino-genital and Endocrine systems.

Study of food and feeding habits of commercially important finfishes and shellfish. Age and growth determination. Reproductive biology– maturity stages, gonado somatic index, ponderal index, fecundity, sex ratio and spawning. Eggs and larval stages and developmental biology of finfishes and shell fishes.

Circulation. Excretion, Osmoregulation. Reproductive physiology. Sense organs. Effect of environmental factors on physiology of finfish and shellfishes. Stress related physiology.

Inland capture fishery resources of India. Major riverine and estuarine systems of India. Major brackish-water. Differences between man-made and natural lakes and flood-plain wetlands. Fishery zones and fishery resources of world. Major exploited marine fisheries of India, their developmental history and present status. Important pelagic - demersal fish, shellfish and seaweed resources of India. Potential marine fishery resources of the India's EEZ. GIS and Remote sensing in marine capture fishery. Concept

of population, Unit and mixed stock. Principles of stock assessment. Population age structure. Estimation of total fishing and natural mortality. The concept of yield, yield in number and yield in weight, Sustainable Yield and Maximum Economic Yield. Fisheries regulations.

### **3. Fish Health Management and Aquatic Environment Management:**

Significance of fish diseases in relation to aquaculture. Host, pathogen and environment interaction. Pathogenicity and mechanism of bacterial, viral and fungal infections of finfish and shellfish. Infectious diseases. Important diseases of fish and shellfish; Principles of disease diagnosis. Case history and clinical sign in diagnosis. Drugs, chemicals, antibiotics and probiotics used in aquaculture and their mode of action. Quarantine and fish health.

Inland water types, their identities and distribution; ponds and lakes; streams, dynamics of lentic and lotic environments. Lakes - their origin and diversity. Lake environment: morphometry, physical and chemical conditions and biological relations. Plankton, nekton, benthos and concept of productivity. Lotic environments.

The earth and the ocean basin, Relief of sea floor; Ocean Waves, and Tides: types of tides tidal bores and tide prediction. Ocean Currents, General distribution of temperature and salinity. Divisions of marine environment: pelagic, benthic, euphotic, aphotic divisions and their subdivisions. General account of major groups of phytoplankton, sea weeds, major zooplankton groups. Benthos in rocky, sandy, and muddy shores, Mud banks and Mangroves. Goals and purposes of CZM. General coastal zone programs. Coastal Regulation Zone (CRZ) Act. Integrated Coastal Zone Management (ICZM).

Origin and nature of soils. Physical and chemical properties of soil, Submersed soils, wet lands, Saline soils, Alkali soils, acid sulphate soils, iron pyrites, soil reclamation. Collection and preparation of soil samples. Nature of Atmosphere: weather and climate; composition of Atmosphere. Humidity and water vapour. Condensation and precipitation: process and conditions of condensation, measurement of precipitation. Isobars and pressure gradients, wind observation and measurement

Ecology and its subdivisions, Ecosystem: Principles, concepts, Structure and function of an ecosystem, Producers, consumers. Energy flow in the ecosystem. Ecological succession; Food chains, food webs and ecological pyramids; Water conservation, rainwater harvesting. Homeostasis. Ecological indicators. Community Ecology: species diversity in communities. Symbiosis commensalisms, parasitism. The freshwater environment and types; pond ecosystem, wetlands. Environment protection and conservation.

Classification of water pollution- Sewage and domestic wastes- sewage treatments. Agricultural wastes- Eutrophication; Pesticide types and categories; Bioaccumulation and Phytoremediation. Oil pollution; Microbial pollution: Radionuclide pollution, Thermal pollution Environmental Impact Assessment for fisheries and aquaculture projects.

### **4. Fish Processing Technology and Aquaculture Engineering**

Fishing gears of world and India. Gear materials- Classification – natural and synthetic – yarns, twines, ropes. Accessories for fishing gear. Floats – buoys: its materials. Sinkers- types. Fishing accessories – thimbles, shackles, C-lonks, rings, G-links, Kelly's eye. Maintenance and storage of gears and gear materials. FAO Classification of fishing gear Classification of trawling. Fish pumps. Fish finder, GPS navigator, sonar net sonde. Traditional fishing crafts of India. Classification of fishing crafts based on fabrication, dimension, nature of fishing, depth of operation etc.; Boat building materials seasoning & preservation.

Handling of fresh fish; principles of low temperature preservations. Chilling of fish—methods and equipment for chilling; Can making materials and cans, Steps in canning- Precooking, packing, exhausting, seaming, thermal processing, cooling and storage. Processing of fish by traditional methods – salting, sun drying, smoking, marinading and fermentation. Fish meal and oil. Chitin chitosan. Utilization of seaweeds agar agar battered and braided products-fish.

Freshwater and costal aqua-farms. Preliminary survey, site selection, topography. Land survey- chain surveying, compass surveying, leveling, plane table surveying and contour surveying. Location design and construction of hatcheries, race ways and farm complex. Tide- fed/ pump fed farms, open canals and roads. Design and construction of ponds and dykes; seepage and evaporation and their control.

### **5. Basic Sciences (Fisheries Extension, Economics, Statistics, Biochemistry and Communication Technology):**

Introduction to fisheries economics, basic economic terminologies, Farm production economics—Costs and returns—factors of production, marginal cost and return, law of diminishing marginal return, returns to scale, contribution of fisheries to GNP and employment. Fisheries Trade and Environment.

Major biomolecules in foods and their important functions. Glycolysis and TCA cycle. secondary, Classification, structure, functions and properties of carbohydrates, proteins and lipids. Enzymes- nomenclature; classification.

Composition of food & nutritional value. Moisture in foods. Fish lipids in human nutrition, oxidation of fatty acids; naturally occurring polysaccharides in foods, fibre in food and its role. Glycolysis, gluconeogenesis, essential and non-essential amino acids.

Prokaryotes – bacteria, actinomycetes, spirochaetes, cyanobacteria, mycoplasma & viruses, photoheterotrophs & chemoheterotrophs. Role of microorganisms in the cycling of elements in water, breakdown and production of organic matter; Carbon, nitrogen, sulfur, phosphorus iron and manganese cycles. Role of bacteria and fungi in sedimentations, microorganisms and water pollution, hydrothermal bacteria, halophilic bacteria.

IT and its importance, IT tools, IT-enabled services and their impact on society; computer fundamentals; hardware and software; input and output devices; word and character representation Operating systems (OS) – definition, basic concepts, introduction to WINDOWS and LINUX Operating Systems; Local area network (LAN), Wide area network(WAN), Internet and World Wide Web, HTML and IP; Introduction to MS Office – Word, Excel, Power Point. Audio visual aids - definition, advantages.

Fisheries extension - concepts, objectives and principles. History and role of fisheries extension in fisheries development. Transfer of technology process; important TOT programs in fisheries; Basic concepts in rural sociology and psychology and their relevance in fisheries extension; social change, social control. Central and State responsibilities for fisheries development, organizational set up of fisheries administration at the Centre and state levels. Functions and powers of functionaries of department of fisheries, corporations and cooperatives. development over Five Year Plans I. Fisheries legislation.

Hazard, risk, vulnerability, disaster, capacity building. Types of natural and manmade hazards in fisheries and aquaculture; algal blooms, habitat destruction, over fishing, introduction of exotic species, loss of bio-diversity etc. Causes, characteristics and impact of various disasters.

Co-operative movement in fisheries in India, source and type of credit/finance in fisheries role of NABARD in fisheries development. Insurance in fish and shrimp farming. Market structure, functions and types; marketing channels and supply chain.

Entrepreneurship Development: Fisheries entrepreneurial and managerial characteristics. Generation incubation and commercialization of ideas and innovations. Government schemes and incentives for promotion of entrepreneurship.

Definition of statistics, Basic concepts of population and sample, classification of data, frequency and cumulative frequency table. Arithmetic mean median and mode relative important measures of dispersion coefficient of variation.





# Pre - P.G. ENTRANCE TEST - 2021

## OMR ANSWER SHEET, SIDE-II

ROLL NO.	BOOKLET SERIES	FACULTY																																																																																																																
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2	(1)	(2)	(3)	(4)	27	(1)	(2)	(3)	(4)	52	(1)	(2)	(3)	(4)	77	(1)	(2)	(3)	(4)
3	(1)	(2)	(3)	(4)	28	(1)	(2)	(3)	(4)	53	(1)	(2)	(3)	(4)	78	(1)	(2)	(3)	(4)
4	(1)	(2)	(3)	(4)	29	(1)	(2)	(3)	(4)	54	(1)	(2)	(3)	(4)	79	(1)	(2)	(3)	(4)
5	(1)	(2)	(3)	(4)	30	(1)	(2)	(3)	(4)	55	(1)	(2)	(3)	(4)	80	(1)	(2)	(3)	(4)
6	(1)	(2)	(3)	(4)	31	(1)	(2)	(3)	(4)	56	(1)	(2)	(3)	(4)	81	(1)	(2)	(3)	(4)
7	(1)	(2)	(3)	(4)	32	(1)	(2)	(3)	(4)	57	(1)	(2)	(3)	(4)	82	(1)	(2)	(3)	(4)
8	(1)	(2)	(3)	(4)	33	(1)	(2)	(3)	(4)	58	(1)	(2)	(3)	(4)	83	(1)	(2)	(3)	(4)
9	(1)	(2)	(3)	(4)	34	(1)	(2)	(3)	(4)	59	(1)	(2)	(3)	(4)	84	(1)	(2)	(3)	(4)
10	(1)	(2)	(3)	(4)	35	(1)	(2)	(3)	(4)	60	(1)	(2)	(3)	(4)	85	(1)	(2)	(3)	(4)
11	(1)	(2)	(3)	(4)	36	(1)	(2)	(3)	(4)	61	(1)	(2)	(3)	(4)	86	(1)	(2)	(3)	(4)
12	(1)	(2)	(3)	(4)	37	(1)	(2)	(3)	(4)	62	(1)	(2)	(3)	(4)	87	(1)	(2)	(3)	(4)
13	(1)	(2)	(3)	(4)	38	(1)	(2)	(3)	(4)	63	(1)	(2)	(3)	(4)	88	(1)	(2)	(3)	(4)
14	(1)	(2)	(3)	(4)	39	(1)	(2)	(3)	(4)	64	(1)	(2)	(3)	(4)	89	(1)	(2)	(3)	(4)
15	(1)	(2)	(3)	(4)	40	(1)	(2)	(3)	(4)	65	(1)	(2)	(3)	(4)	90	(1)	(2)	(3)	(4)
16	(1)	(2)	(3)	(4)	41	(1)	(2)	(3)	(4)	66	(1)	(2)	(3)	(4)	91	(1)	(2)	(3)	(4)
17	(1)	(2)	(3)	(4)	42	(1)	(2)	(3)	(4)	67	(1)	(2)	(3)	(4)	92	(1)	(2)	(3)	(4)
18	(1)	(2)	(3)	(4)	43	(1)	(2)	(3)	(4)	68	(1)	(2)	(3)	(4)	93	(1)	(2)	(3)	(4)
19	(1)	(2)	(3)	(4)	44	(1)	(2)	(3)	(4)	69	(1)	(2)	(3)	(4)	94	(1)	(2)	(3)	(4)
20	(1)	(2)	(3)	(4)	45	(1)	(2)	(3)	(4)	70	(1)	(2)	(3)	(4)	95	(1)	(2)	(3)	(4)
21	(1)	(2)	(3)	(4)	46	(1)	(2)	(3)	(4)	71	(1)	(2)	(3)	(4)	96	(1)	(2)	(3)	(4)
22	(1)	(2)	(3)	(4)	47	(1)	(2)	(3)	(4)	72	(1)	(2)	(3)	(4)	97	(1)	(2)	(3)	(4)
23	(1)	(2)	(3)	(4)	48	(1)	(2)	(3)	(4)	73	(1)	(2)	(3)	(4)	98	(1)	(2)	(3)	(4)
24	(1)	(2)	(3)	(4)	49	(1)	(2)	(3)	(4)	74	(1)	(2)	(3)	(4)	99	(1)	(2)	(3)	(4)
25	(1)	(2)	(3)	(4)	50	(1)	(2)	(3)	(4)	75	(1)	(2)	(3)	(4)	100	(1)	(2)	(3)	(4)

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## ANNEXURE-IV

### SCHEDULE OF ENTIRE ADMISSION PROCESS THROUGH Pre PG-2021

S. No.	Activities	Proposed Date & Day	
1	Issuing Notification	20.03.2021	Saturday
2	Date of commencement for filling the online application	24.03.2021	Wednesday
3	Last date for filling and online depositing the application forms without late fee	17.05.2021	Monday
4	Last date for filling & online depositing the application forms with late fee Rs. 500/-	22.05.2021	Saturday
5	Last date for editing applications form	24.05.2021	Monday
6	Online Admit cards available	05.07.2021	Monday
7	<b>Date of Entrance Examination</b>	<b>11.07.2021</b>	<b>Sunday</b>
8	Display of OMR sheets and answer key	19.07.2021	Monday
9	Last date for objections, if any	22.07.2021	Thursday
10	Declaration of result	30.07.2021	Friday
11	Opening of Online Option Form	30.07.2021	Friday
12	Last date for depositing the Online Option Form fee	05.08.2021	Thursday
13	Last date for editing the Online Option Form	06.08.2021	Friday
14	Display of 1 <sup>st</sup> Provisional Admission List	10.08.2021	Tuesday
15	Last date for accepting allotment and depositing the fee or submitting request for upward assessment (Online)	12.08.2021	Thursday
16	Display of 2 <sup>nd</sup> Provisional Admission List	14.08.2021	Saturday
17	Last date for accepting allotment and depositing the fee or submitting request for 2 <sup>nd</sup> upward assessment (Online)	17.08.2021	Tuesday
18	Display 3 <sup>rd</sup> Provisional Admission List	20.08.2021	Friday
19	Last date for accepting allotment and depositing fee (Online)	23.08.2021	Monday
20	Reporting with original documents in respective College up to 5:00PM	25.08.2021	Wednesday
<b>If seats remains vacant</b>			
21	Opening of Option Form for Online Spot Counselling		
22	Last date for Online Option Form		
23	Display of 1 <sup>st</sup> Provisional Admission List		
24	Last date for depositing the Online fees		
25	Reporting in the College		
26	Display of 2 <sup>nd</sup> Provisional Admission List		
27	Last date for depositing the online fees		
28	Reporting in the College		

Admission process for 2021-22 will be over by 25<sup>th</sup> August, 2021. Although, JET Coordinator reserves the right to change the dates.

**Candidates are advised to visit the website for changes in dates, system, or any other information from time to time. The coordinator will not be responsible for not reaching the changes to the candidate in time.**

**Contact Details:**

Toll free number: 1800-180-6790

Landline number: 01425-254931

Bank Contact number:01425-254784

Bank email id.: dbjobn@bankofbaroda.co.in

**Coordinator  
JET/Pre-PG/ Ph. D 2021**