



भा.वा.अ.शि.प—उष्णकटिबंधीय वन अनुसंधान संस्थान

ICFRE-TROPICAL FOREST RESEARCH INSTITUTE

भारतीय वानिकी अनुसंधान एवं शिक्षा परिषद

Indian Council of Forestry Research & Education

पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार की एक स्वायत्त परिषद

An autonomous Council under the Ministry of Environment, Forest & Climate Change

डाकघर — आर०एफ०आर०सी०, मण्डला रोड, जबलपुर — 482 021

P.O. R.F.R.C., Mandla Road, Jabalpur — 482 021



TFRI/JBP/DR/2025

Dated 20/06/2025

Advertisement

Group-C Recruitment-2025

Advertisement No. TFRI/JBP/DR/2025 Date: 14/07/2025

Start date for submission of online applications	14-07-2025 (12:00 AM)
Closing date and time for submission of online applications	10-08-2025 (11:59 PM)
Tentative Date of Computer Based Examination (Stage-I)	1st Week of September
Date of Skill/Trade Test (Stage-II)	To be notified later

ICFRE-Tropical Forest Research Institute, Jabalpur (M.P.) is inviting online application from the interested eligible candidates for the posts of Technical Assistant – 10 posts, Forest Guard – 03 posts and Driver-01 post on direct recruitment basis. Age relaxation for SC/ST/OBC(NCL)/Divyangjan/ Ex-servicemen candidates is as per Govt. of India orders issued from time to time. No age relaxation is allowed to SC/ST/OBC(NCL) candidates applying against the unreserved posts. All Candidates are required to pay non-refundable processing fee of Rs. 700/- (Rs. Seven hundred only) + GST and exam fees (Payable category wise) through online mode only. Women/SC/ST/Divyangjan and Ex-servicemen are exempted from the exam fee. No other mode of payment of application fee is acceptable except online payment.

Separate application should be submitted along with prescribed application fee and processing fee for each post, if a candidate wishes to apply for more than one post.

Candidates declared successful for these posts will be recommended for appointment in their respective level as per 7th CPC plus allowances as admissible under the rules/orders of ICFRE.

Applicants can apply through online form available from 14/07/2025 at 00:00:01 AM, at the MPOnline portal <https://www.mponline.gov.in> / <https://iforms.mponline.gov.in>. All Notices/Announcement will appear on Portal Link of ICFRE-TFRI <https://tfri.icfre.org> or <https://tfri.icfre.gov.in>. Last date for submission of application is 10/08/2025.


Director 20/06/2025
ICFRE-TFRI, Jabalpur

Online Applications are invited from the Indian Nationals for the following posts:

1. ICFRE-TFRI, Jabalpur Post wise vacancy details:

Sl. No	Name of the Post & level as per Pay Matrix of 7 th CPC	Number & Break up of Posts	Educational and other qualifications
1	Technical Assistant Category II (Field/Lab.) (Level-5)	10 (01 post is reserved for Ex-servicemen) UR- 01 EWS-01 SC-02 ST-02 OBC- 04	Bachelor degree in Science with Botany/Zoology/Agriculture/Forestry/Biotechnology/Chemistry/Environmental Science/Statistics (as one of the subject) from a recognized University.
2	Forest Guard (Level-2)	03 UR - 02 OBC- 01	-12 th standard pass with Science from a Government recognized Board. -The appointee will be required to complete Forestry training course successfully from a recognized Forest Guard training institution during the probation period. -Physical Proficiency Test and Medical standard are given below in Exam pattern.
3	Driver (Ordinary Grade) (Level-2)	01 UR- 01	<u>Essential: -</u> (i) Matriculation from recognized board. (ii) Possession of a valid driving license for motor cars. (iii) Experience of driving a motor car for three years or more. Desirable: Knowledge of motor mechanism (the candidate should be able to remove minor defects in vehicles).

*In the absence of Degree/Diploma certificate, provisional certificate along with mark sheets pertaining to all the academic years will be accepted.

Amongst the advertised categories of posts:

Abbreviation: SC – Scheduled Castes, ST – Scheduled Tribes, OBC-NCL – Other Backward Classes (Non creamy layer), UR – Unreserved, Divyang/PwBD – Persons with Benchmark Disabilities, VI – Visually Impaired, HI-Hearing Impaired.

In case the qualifying degree/certificate (Higher Secondary or 10+2) carries a Grade Point Average (GPA) system, instead of Percentage system, the duly certified conversion system prescribed by the educational institution must be submitted.

PwBD with minimum 40% disability shall only be eligible to apply for competing against the vacancies reserved for them or availing any relaxation/concession.

2. Procedure for applying:-

Candidates are required to read all GENERAL INSTRUCTIONS before filling up the online application form. The Candidates are required to apply online. The relevant link for online application will be made available **from 00:00:01 AM on 14/07/2025** at the MPOnline website i.e. <https://www.mponline.gov.in> / <https://iforms.mponline.gov.in> Final date for Online submission of application will be 10/08/2025 **till 23:59:59 PM**. No other means/mode of application shall be accepted.

3. Application fee:

Processing Fees + GST is applicable to all candidates and only male candidate of General/OBC Category require to pay additional exam fees also as applicable and shown below.

Sl. No.	Post applied for (Pay scale as per 7 th CPC)	Exam Fee	Processing Fee	Total Fee
1.	Driver Level-2	Rs. 150/-	Rs. 700/- (Per candidate per exam)	Rs. 700+ GST+ Rs. 150
2.	Forest Guard Level-2	Rs. 150/-		Rs. 700+ GST+ Rs. 150
3.	Technical Assistant Level -5	Rs. 350/-		Rs. 700+ GST+ Rs. 350

(Women, SC, ST, PwBD and Ex-servicemen candidates are exempted from paying exam fees.)

* A candidate appearing for more than exams has to pay separate processing and exam fees for each category of post applied for.

* MPOnline will be free to charge for other services such as application form editing, objection calling to question paper, etc. and will be borne by the candidates separately, wishing to make such changes. No exemption in fee shall be given for any category of candidates for such services.

*Under no circumstances, shall the exam fee and processing fee once paid will be refunded.

4. Age limit: -

The candidate must have attained the minimum age but not more than the maximum age limit as given below on the opening date for application i.e. **01/07/2025**.

Sr No.	Post	Minimum and Maximum age on closing date of application
1	Technical Assistant	21-30 years
2	Forest Guard	18-27 years
3	Driver (Ordinary Grade)	18-27 years

5. Centre for written examination:-

Candidates are advised to check MP Online portal as well as Institute's website time to time for the date of examination, name of examination centre etc. The candidates will have to make their own arrangements for travel and stay for the examination. The Director, ICFRE-TFRI, Jabalpur shall have the authority to cancel/change any examination centre without assigning any reason thereof.

Exam Centres	
Ahmedabad	Jabalpur
Bengaluru	Jaipur
Bhopal	Kolkata
Bhubaneswar	Mumbai
Chandigarh	New Delhi (NCR)
Coimbatore	Patna
Dehradun	Prayagraj
Guwahati	Raipur
Hyderabad	Ranchi

The candidates shall give three preferences with regard to the test centers. As far as possible, MPOnline will try to allocate the 1st / 2nd/ 3rd preferences. However, due to administrative/ technical reasons, MPOnline may allot any other test centre based on centre availability and strength of candidates.

6. Place of posting: -

The candidates selected against the posts will be posted at ICFRE-Tropical Forest Research Institute, Jabalpur or its Centre ICFRE-Skill Development Centre, Chhindwara. However, all posts carry liability to serve any of the Institutes/centers under ICFRE within India.

7. Scheme of examination:-

A competitive written examination will be conducted. Driving test for the post of Driver and **Physical Standard Test for the Post of Forest Guard** will be conducted for the candidates shortlisted in 1:10 ratio on the basis of merit of written examination.

Written examination will be conducted for all the posts either on the same date or on different dates through MP Online. The question paper (bilingual – in English and Hindi) will have total 100 multiple choice questions (MCQ) carrying Maximum Marks 100, detailed as below: -

a) TECHNICAL ASSISTANT:

Part	Name of Subject	Number of Questions/Maximum Marks	Time Duration
I	General Awareness & Reasoning	20/20	180 minutes
II	English & General Science	20/20	
III	Arithmetic	20/20	
IV	Relevant Subject:		
	Agriculture	10/10	
	Forestry	10/10	
	Botany	10/10	
	Zoology	10/10	
	Total	100/100	

b) Forest Guard:

Part	Subject	Number of Questions/Maximum Marks	Time Duration (For all four Parts)
I	General Awareness	30/30	120 Minutes
II	Arithmetic, Mental Ability & Reasoning	30/30	
III	General English	10/10	
IV	Science of Intermediate level	30/30	

Physical Standard Test and Medical Standard:

Detail	For Male Candidate	For Female Candidate
Walking	25 km in 04 hours	14 km in 04 hours
Height	Minimum 165 cm	Minimum 150 cm
Chest (without expansion)	79 cm	74 cm
Chest (with expansion)	84 cm	79 cm
• Height relaxation to candidates from North-east is applicable as per relevant GoI Norms. • The appointees will be required to successfully complete Forestry training course from a recognized Forest Guard training institution during the probation period. • During the medical examination, it is necessary to have clear vision with/without specs (6/6) and successfully pass the color blindness test.		

c) DRIVER:

Part	Subject	Number of Questions/ Maximum Marks	Time Duration (For all four Parts)
I	General English	25/25	120 Minutes
II	General Intelligence & Reasoning	25/25	
III	Numerical Aptitude	25/25	
IV	General Awareness	25/25	

Driver (Ordinary Grade): - Driving test includes knowledge of motor mechanism (minor defects), traffic rules and signals.

NOTE: *There will be negative marking of 1/3 marks for each wrong answer in written examination for all the posts.*

Minimum qualifying marks in written examination (as per TSR-13, ONLY for the post of Technical Assistant)

<u>Candidate Category</u>	Minimum qualifying marks
UR	50%
OBC-NCL	45%
SC, ST, PwBD& Ex-Servicemen	40%

- There shall be no minimum qualifying marks for the post of **Forest Guard and Driver**.

8. Selection procedure:

(i) The candidates will be shortlisted on the basis of merit of written examination subject to minimum qualifying marks. The decision of the Institute on short-listing will be final and the Institute will not entertain any correspondence in this regard. **Physical standard test, Trade test** for the relevant posts will be qualifying and with minimum 50% marks (wherever marking). **In case candidate failed to qualify the relevant test though he/she in merit of written examination will not be selected for the post.**

(ii) The candidates shortlisted for skill/proficiency test/selection will have to produce original as well as self attested photocopies of their certificates related to age proof, caste, educational qualifications, Divyangjan and Ex-servicemen certificates etc, at the time of test/prior to appointment for verification. In case the certificate is in a local vernacular language, (except Hindi) its English translation duly attested by a Notary/Gazetted Officer should also be produced. **All eligibility certificates must be issued by the competent authorities before the closing date of application.**

(iii) Rules for Tie-Breaker: -

In cases where more than one candidate secures the equal aggregates marks in the written examination, tie will be resolved by applying the following methods one after another till the tie is resolved:

- (i) Date of birth, with older candidates placed higher in the merit list.
- (ii) Name of the candidates as per alphabetical order placed higher in the merit list.
- (iii) Higher % of marks in the essential qualification for the applied post placed higher in the merit list.

(iv) Waiting List of Candidates: - A category-wise panel of waitlisted candidates shall be prepared for various posts (category-wise). In the event that any post remains vacant — due to non-acceptance of the offer, resignation after joining, or any other unforeseen reason — candidates from the waiting list may be considered for appointment, as per merit and availability.

9. Age Relaxation as per GoI norms:

Sr No.	Category	Age-relaxation permissible beyond the upper age limit
1	SC/ST	5 years against reserved posts only.
2	OBC (NCL)	3 years against reserved posts only.
3	PwBD with minimum 40% disability	10 years (15 years for SC/ST and 13 years for OBC-NCL) for the relevant category of disability.
4	Ex-servicemen/Disabled Defense Service Personnel	Period of Service rendered in Army/Navy and Air force plus 3 years. Upper age limit up to 45 years (50 years of SC/ST) for Group C. Other age relaxations for disability and ST/SC/OBC as per <u>DoPT OM No. - 1667569393892</u> dt 06.09.2022 shall be applicable.
5	Central Govt. Civilian Employees who have rendered not less than 3 years regular and continuous service as on closing date for receipt of application.	Upto 40 years of age
6	Central Govt. Civilian Employees (OBC) who have rendered not less than 3 years regular and continuous service as on closing date for receipt of application.	Upto 43 years of age
7	Central Govt. Civilian Employees (SC/ST) who have rendered not less than 3 years regular and continuous service as on closing date for receipt of application.	Upto 45 years of age
8	Widows/ Divorced Women/ Women judicially separated and who are not remarried.	Up to 35 years of age
9	Widows/ Divorced Women/ Women judicially separated and who are not remarried (OBC-NCL).	Up to 38 years of age
10	Widows/ Divorced Women/ Women judicially separated and who are not remarried (SC/ST).	Up to 40 years of age
11	ICFRE Permanent employee	• No age limit for the post of Technical Assistant. • Relaxation up to 5 years for all other posts.

Age relaxation as admissible to Physically Handicapped/ Ex-Serviceman applicants shall be considered as per Government of India norms. Such candidates must ensure that they are entitled to relaxation and possess the valid certificates / documents prescribed by GoI in support of their claim. The certificate should be issued before the last date of submission of application.

a) Age relaxation for Scheduled Caste (Sc), Scheduled Tribe (ST) and other Backward Class (OBC-NCL) wherever applicable and admissible.

b) All candidates, irrespective of Category may be considered against UR vacancies, subject to fulfillment of eligibility criteria prescribed for UR candidates. However, against the vacancies earmarked for specific communities (SC/ST/OBC-NCL), only candidates belonging to that Category will be considered.

c) For availing reservation, SC/ST/OBC-NCL candidates should furnish valid Caste/Category Certificate which should be issued before the last date of submission of application from Competent Authorities at the time of document verification.

d) Further, in case of OBC-NCL candidates, the certificates should specifically indicate that the candidate does not belong to the Persons/Sections (Creamy Layer) mentioned in Column 3 of the Schedule of the Government of India, Department of Personnel and Training O.M.No.36012/22/93-Estt. (SCT) dated 08.09.93 & its subsequent revision through O.M.No.36033/3/2004-Estt. (Res) dated 09.03.2004, 27.05.2013, 13.09.2017 and further revision if any received till the closing date for ONLINE Registration. The candidate should ensure that he/she belongs to the OBC- Non Creamy Layer category while applying for the posts against this notice. Such candidate should produce a valid OBC (NCL) certificate in the prescribed format during Document Verification. Further, in addition to the Category Certificate (OBC-NCL), a declaration if required has to be furnished by the candidate during Document Verification, that he/she does not belong to the creamy layer, otherwise, their claim for reserved status (OBC-NCL) will not be entertained and the candidature/application of such candidates, if fulfilling all the eligibility conditions prescribed for General (Un- reserved) category, will be considered against General (UR) vacancy only.

e) Candidates belonging to SC/ST/OBC-NCL who fulfill required educational qualification/ Technical/Professional qualifications can also apply against UR vacancies. They will however, have to compete with the UR candidates and will not be eligible for any relaxation including age relaxation.

f) Category status as on the closing date for ONLINE Registration of application for this notice shall only be considered for availing reservation benefits if eligible and any request for change in the Category status of the candidate thereafter shall not be entertained.

GENERAL INSTRUCTIONS:

1. Only Indian citizens are eligible to apply.
2. Applicants have to fill up the online form available at the MPOnline website <https://www.mponline.gov.in>. The announcement of dates will be made available both on MPOnline and ICFRE-TFRI website. Hard copy applications either by hand or by post will not be accepted.
3. All the important notices regarding recruitment will appear on the Institute's website <https://tfri.icfre.gov.in/> / <https://tfri.icfre.org> or MPOnline <https://www.mponline.gov.in> / <https://iforms.mponline.gov.in> Candidates are advised to visit the website regularly for updates.
4. Mere fulfilling of the minimum qualification and experience requirements shall not vest any right in the candidate for being called for written examination.
5. Any canvassing by or on behalf of the candidates or to bring political or other outside influence with regard to selection/ recruitment shall be a disqualification.
6. If a candidate wishes to apply for more than one post, he/she should submit separate online application form with required fee.
7. There shall be no provision for re-evaluation/re-checking in the examination. No correspondence will be entertained in any manner.
8. **Number of posts mentioned in the advertisement may decrease or increase. The Director, ICFRE-T.F.R.I., Jabalpur reserves the right to fill or not to fill any or all the advertised posts without assigning any reason.**
9. The candidate must note that if his/her ineligibility is detected at any stage before or after the written examination, the conditions prescribed in the rules and instructions given in the advertisement or any other information/documents called for at any stage are not complied within the time specified therein, his/her candidature will be liable for cancellation. The Institute will not be responsible for cancellation on this account.

10. THE CRUCIAL DATE FOR AGE CALCULATION WITH RESPECT TO ELIGIBILITY IS 01.07.2025.

11. Question paper will be bi-lingual (in English and Hindi). In case of discrepancy in interpretation English version of the question will be treated as correct and final.
12. The English Version of the detailed advertisement will be considered as final in case of any confusion or variation is found in the Hindi version of the advertisement.
13. All disputes related to question paper (Representation, wrong question, or wrong option, etc should be done with MPONLINE which is the final authority in this regard. The Institute will not enter into any correspondence in this regard.
14. **Legal disputes, if any, shall be subject to the jurisdiction of the Competent Court at Jabalpur, Madhya Pradesh Only.**
15. A candidate must be in good mental and bodily health and free from any physical defects likely to interfere with the discharge of his duties. ICFRE-TFRI may prescribe the medical tests, if required.
16. Based on the merit, the candidates belonging to reserved categories i.e. SC/ST/OBC are also eligible to be considered against the un-reserved vacancies, if no relaxation in age and no relaxation in qualifying marks in written examination has been availed by such reserved community/category candidates. If any concession in age and relaxation in qualifying standard is availed, such candidates will be eligible for consideration only against vacancies reserved for them.
17. All candidates, irrespective of community/category may be considered against UR vacancies, subject to fulfillment of eligibility criteria prescribed for UR candidates. However, against the vacancies earmarked for specific communities (SC/ST/OBC-NCL), only candidates belonging to that community/category will be considered.
Candidates seeking reservation/relaxation benefits available for SC/ST/OBC/Divyangjan must ensure that they are entitled to such reservation/relaxation as per eligibility prescribed in the Rules/Notice.
18. **No person: -**
 - a) Who has entered into or contracted a marriage with a person having a spouse living, or
 - b) Who, having a spouse living has entered into or contracted a marriage with any personShall be eligible for appointment to the service, provided that the ICFRE-TFRI, may, if satisfied that such a marriage is permissible under the personal law applicable to such person and the other party to the marriage and there are other grounds for so doing, exempt any person from the operation of this rule.

19. During the written examination, candidates are required to bring one original photo ID like PAN Card, Voter ID, Adhaar Card, Driving License, Bank Passbook with photograph/ valid recent Identity Card issued by a recognized college/university/ Employee ID.
20. Mobiles and other electronic gadgets are not allowed in the examination hall during the written examination. In case a candidate is found carrying any electronic gadget inside the examination hall, he/she will be handed over to the police and his/her candidature shall be cancelled.
21. Candidature of a candidate found involved in any unfair practice or copying by any means in the examination hall shall be cancelled
22. A candidate who is or has been declared by the Board guilty of impersonation or of submitting fabricated documents or documents which have been with or a making statements which are incorrect or false or of suppressing material information tempered or otherwise resorting to any other irregular or improper means for obtaining admission to the examination, or of using or attempting to use unfair means or of misbehavior or misconduct in the examination hall, may, in addition to rendering himself/herself liable to criminal prosecution and disqualification from the examination concerned:
 - a) Be debarred permanently or for a specific period by the ICFRE-TFRI from employment under them will be liable to disciplinary action under the appropriate rules, if he/she is already in service under Government/ICFRE.
23. Candidates who have been previously blacklisted or debarred by ICFRE or any government organization shall be ineligible to participate in this recruitment process. Any concealment or misrepresentation of any information at any stage will result in immediate disqualification and legal action, if applicable.
24. **Provision of Compensatory Time and assistance of scribe to PwBD candidates:**
 - a) In case of persons with benchmark disabilities (PwBD) in the community/category of blindness, locomotor disability (both arms affected-BA) and cerebral palsy, the facility of scribe will be provided, if desired by the candidate. In case of remaining categories of persons with benchmark disabilities (PwBD), the provision of scribe will be available only on production of a Certificate at the time of examination to the effect that the person concerned has physical limitation to write, and scribe is essential to write examination on his behalf, from the Chief Medical Officer/Civil Surgeon/Medical Superintendent of a Government health care Institution as per **Annexure I**.
 - b) The facility of scribe will also provided to PwBD candidates having disability less than 40% and having difficulty in writing in pursuance to OM No.29-6/2019-DD-III dated 10.08.2022 issued by Department of Empowerment of Persons with Disabilities, Ministry of Social Justice and Empowerment. The facility will be provided on production of Certificate as per **Annexure IA**.
 - c) The facility of scribe/passage reader will be provided to the PwBD/PwD candidates only if they have opted for the same in the on-line application form. The candidate will have the discretion of opting for his own scribe or to avail the facility of scribe provided by the Institute. Appropriate choice in this regard will have to be given by the candidate in the online application.
 - d) In case the candidate opts for his/her scribe, the qualification of the scribe should be one step below the qualification of the candidate taking the examination. The candidates opting for own scribe shall be required to submit details of the own scribe at the time of examination as per **Annexure II**.
 - e) In addition, the scribe has to produce a valid ID proof in original at the time of examination. A photocopy of ID proof (Aadhar/Voter's ID/PAN card/DL/Pass Port/Student ID card/ Govt. employee ID card/ESM discharge certificate) of the scribe signed by the candidate as well as the scribe will be submitted as per **Annexure IIA**.
 - f) If subsequently it is found that the qualification of the scribe is not as declared by the candidate, then the candidate shall forfeit his right to the post and claims relating thereto. Own scribe should not be a candidate of this examination. If a candidate is detected as assisting another PwBD/PwD candidates as scribe in this examination, then the candidatures of both the candidates will be cancelled.
 - g) No attendant other than the scribe for eligible candidates will be allowed inside the examination Hall. One eyed candidates and partially blind candidates who are able to read the normal question paper set with or without magnifying glass and who wish to write/indicate the answer with the help of magnifying glass will be allowed to use the same in the examination Hall and will not be entitled to a scribe. Such candidates will have to bring their own magnifying glass to the examination hall.
 - h) A Compensatory time of 20 minutes per hour of examination will be provided to the candidates who are allowed use of scribe. The candidates who are eligible for scribe but do not avail the facility of scribe will also be given compensatory time of 20 minutes per hour of examination.
 - i) The PwBD/PwD candidates who have availed the facility of scribes/passage reader and/or compensatory time must produce relevant documents for the eligibility of scribe/compensatory time at the time of Document Verification conducted by this Institute. Failure to produce such supporting documents will lead to cancellation of their candidature for the examination.

25. The candidates selected through direct recruitment will be governed by the provisions of the New Pension Scheme introduced by the Govt. of India w.e.f. 01-01-2004.
26. Due to any un-avoidable circumstances directions received from competent authority, the last date for online submission of application forms, examination date etc. are subjected to change for which timely information will be communicated through ICFRE-TFRI/MPOnline website.
27. If candidates are found to indulge at any stage in any of the malpractices listed below, their candidature for this examination will be cancelled and they will be debarred from the examinations of the Institute for the period mentioned below:

Sl. No.	Type of Malpractice	Debarment period
1.	Taking away any Examination related material from the examination hall or passing it on to unauthorized persons during the conduct of examination.	2 Years
2.	Leaving the Examination Venue uninformed during the Examination	2 Years
3.	Misbehaving, intimidating or threatening in any manner with the examination functionaries' i.e. Supervisor, Invigilator, Security Guard or Institute's representatives etc.	3 Years
4.	Obstruct the conduct of examination/ instigate other candidates not to take the examination.	3 Years
5.	Making statements which are incorrect or false, suppressing material information, submitting fabricated documents, etc.	3 Years
6.	Obtaining support/ influence for his candidature by any irregular or improper means in connection with his candidature.	3 Years
7.	Possession of Mobile Phone in 'switched on' or 'switched off' mode.	3 Years
8.	Appearing in the same examination more than once in contravention of the rules.	3 Years
9.	A candidate who is also working on examination related matters in the same examination.	3 Years
10.	Damaging examination related infrastructure/ equipment.	5 Years
11.	Appearing in the Examination with forged Admit Card, identity proof, etc.	5 Years
12.	Possession of fire arms/ weapons during the examination.	5 Years
13.	Assault, use of force, causing bodily harm in any manner to the examination functionaries' i.e. Supervisor, Invigilator, Security Guard or Institute's representatives etc.	7 Years
14.	Threatening/ intimidating examination functionaries with weapons/ firearms.	7 Years
15.	Using unfair means in the examination hall like copying from unauthorized sources such as written material on any paper or body parts, etc.	7 Years
16.	Possession of Bluetooth Devices, spy cameras, or any other electronic gadgets in the examination hall.	7 Years
17.	Impersonate/ Procuring impersonation by any person.	7 Years
18.	Taking snapshots, making videos of question paper or examination material, labs, etc.	7 Years
19.	Sharing examination terminal through remote desktop software / Apps/LAN/ VAN, etc.	7 Years
20.	Attempt to hack or manipulate examination servers, data and examination systems at any point before, during or after the examination.	7 Years

28. In case the claim of candidates regarding Age, Educational Qualifications, Scheduled Caste (SC)/Scheduled Tribe (ST)/ Other Backward Class (OBC)/Divyangjan is found to be incorrect, it may render them liable to be disqualified by the respective institute of ICFRE and their candidature will stand cancelled.
29. OBC (NCL) candidates whose caste is not listed in Central List (as available on National Commission for Backward Classes website www.ncbc.nic.in) and who are not covered under the provisions as applicable to OBC-Non-Creamy Layer (NCL) candidates shall be treated as General Community/category candidates for all purposes. Accordingly, OBC Candidates not belonging to OBC Non-Creamy Layer shall indicate their community/category as 'General'. The OBC (NCL) Caste Certificate in Central Govt. format must have been issued on current financial Year. (i.e. on or after 1st April 2025).
30. A candidate will be eligible to get the benefit of community/category reservation only in case the particular caste to which the candidates belongs is included in the list of reserved communities issued by the Central Government as on closing date of application.
31. Once a candidate has chosen a reserved community/category, no request shall be entertained for change to other reserved community/category viz. SC to ST, ST to SC, OBC to SC/ST or SC/ST to OBC, SC to EWS, EWS to SC, ST to EWS, EWS to ST, OBC to EWS, EWS to OBC (or) any other such requests.
32. In case of a candidate unfortunately becoming physically disabled during the course of the recruitment process, the candidate should produce valid document showing him/her acquiring a disability to the extent of 40% or more as defined under The Rights of Persons with Disabilities Act, 2016 to enable him/her to get the benefits of PwBD reservation for posts reserved under PwBD quota.
33. Employees of Central/State Govt./PSUs/Autonomous Bodies applying for the above posts should obtain prior permission before applying and should produce "NO OBJECTION CERTIFICATE" at the time of Documents verification.
34. Mere submission of the Application Form and/or qualifying written examination does not ensure selection. If on verification at any later stage, it is found that a candidate does not fulfill any of the eligibility condition(s) or has given wrong/incorrect/misleading/false information, his/her candidature will be cancelled/rejected and fee paid will be forfeited, including any other action as deemed fit by the Council.

Certificate regarding physical limitation in an examinee to write

This is to certify that, I have examined Mr/Ms/Mrs _____(name of the candidate with disability), a person with _____(nature and percentage of disability as mentioned in the certificate of disability), S/o/ D/o _____a _____ resident of _____Village/District/State) and to state that he/she has physical limitation which hampers his/her writing capabilities owing to his/her disability.

Signature

Chief Medical Officer/Civil Surgeon/Medical Superintendent of a
Government health care institution

Name & Designation

Name of Government Hospital/Health Care Centre with Seal

Place:

Date:

Note: Certificate should be given by a specialist of the relevant stream/disability (e.g. Visual impairment-Ophthalmologist, Locomotor disability-Orthopaedic specialist/PMR)

Certificate for person with specified disability covered under the definition of Section 2 (s) of the RPwD Act, 2016 but not covered under the definition of Section 2(r) of the said Act, i.e. persons having less than 40% disability and having difficulty in writing.

This is to certify that, we have examined Mr/Ms/Mrs (name of the candidate), S/o /D/o, a resident of(Vill/PO/PS/District/State), aged yrs, a person with (nature of disability/condition), and to state that he/she has limitation which hampers his/her writing capability owing to his/her above condition. He/she requires support of scribe for writing the examination.

2. The above candidate uses aids and assistive device such as prosthetics & orthotics, hearing aid (name to be specified) which is /are essential for the candidate to appear at the examination with the assistance of scribe.

3. This certificate is issued only for the purpose of appearing in written examinations conducted by recruitment agencies as well as academic institutions and is valid upto _____ (it is valid for maximum period of six months or less as may be certified by the medical authority)

Signature of medical authority

(Signature & Name)	(Signature & Name)	(Signature & Name)	(Signature & Name)	(Signature & Name)
Orthopaedic / PMR specialist	Clinical Psychologist/Rehabilitation Psychologist/Psychiatrist / Special Educator	Neurologist (if available)	Occupational therapist (if available)	Other Expert, as nominated by the Chairperson (if any)
(Signature & Name)				
Chief Medical Officer/Civil Surgeon/Chief District Medical Officer.....Chairperson				

Name of Government Hospital/Health Care Centre with Seal

Place:

Date:

Letter of Undertaking for Using Own Scribe

I _____, a candidate with _____ (name of the disability) appearing for the _____ (name of the examination) bearing Roll No _____ at _____ (name of the centre) in the District _____, _____ (name of the State/ UT) My qualification is _____

I do hereby state that _____ (name of the scribe) will provide the service of scribe/reader/lab assistant for the undersigned for taking the aforesaid examination

I do hereby undertake that his/ her qualification is _____. In case, subsequently it is found that his/ her qualification is not as declared by the undersigned and is beyond my qualification, I shall forfeit my right to the post and claims relating thereto

(Signature of the candidate with Disability)

Place:

Date:

Letter of Undertaking by the person with specified disability covered under the definition of Section 2 (s) of the RPwD Act, 2016 but not covered under the definition of Section 2(r) of the said Act, i.e. persons having less than 40% disability and having difficulty in writing

I _____, a candidate with _____ (nature of disability/condition) appearing for the _____ (name of the examination) bearing Roll No. _____ at _____ (name of the centre) in the District _____, _____ (name of the State). My educational qualification is _____.

2. I do hereby state that _____ (name of the scribe) will provide the service of scribe for the undersigned for taking the aforementioned examination.

3. I do hereby undertake that his qualification is _____. In case, subsequently it is found that his qualification is not as declared by the undersigned and is beyond my qualification. I shall forfeit my right to the post or certificate/diploma/degree and claims relating thereto.

(Signature of the candidate)

(Counter signature by the parent/guardian, if the candidate is minor)

Place:

Date:

INDICATIVE SYLLABUS FOR THE WRITTEN EXAMINATIONS

TECHNICAL ASSISTANT

40 MCQ are from Common syllabus for Agriculture/Botany/Forestry/Zoology disciplines.
(Separate Syllabus attached)

1.General Awareness & Reasoning (20 MCQ)

i) General Awareness:

Questions in this component will be aimed at testing the candidate's general awareness of the environment around him and its application to society. Questions will also be designed to test knowledge of current events and of such, matters of everyday observation and experience in their scientific aspects as may be expected from an educated person. The test will also include questions relating to India and its neighbouring countries especially pertaining to history, culture, geography, economic scene, general policy and scientific research etc., These questions will be such that they do not require a special study of any discipline.

ii) Reasoning:

Questions of reasoning would include questions of both verbal and non-verbal type. This component will include questions of analogies, similarities and differences, spatial visualization, spatial orientation, problem solving, analysis, judgment, decision making, visual memory, discrimination, observation, relationship, concepts, arithmetic reasoning, verbal and figure classification, arithmetical number series, non-verbal series, coding and decoding statement, conclusion, syllogistic reasoning, etc.,

2.General English & General Science (20 MCQ)

General English:

Questions in this component will be designed to test the candidate's understanding and knowledge of English language and will be based on spot the error, fill in the blank, synonyms, antonyms, spelling/detecting misspelled words, idioms & phrases, one word substitution, improvement of sentences, Active/ passive voice of verbs, conversion into direct/indirect narration, comprehension passage, etc.,

General Science:

Basic understanding of science expected of a high school student.

3. Arithmetic (20 MCQ)

The questions will be designed to test the ability of appropriate use of numbers and number sense of the candidate. The part will include questions of problems relating to number system, computations whole numbers, decimals, and fractions, relationships between numbers fundamental arithmetical operations, percentage, ratio and proportion, average, interest, profit and loss, discount, use of tables and graphs mensuration, time and distance ratio and time etc.,

4.(A) SYLLABUS FOR AGRICULTURE (10 MCQ)

AGROMETEOROLOGY

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

AGRONOMY

Agronomy as a science and its scope, plant growth and development, environmental effects on crop growth, ideal plant type, tillage seed quality, sowing, crop density and spatial arrangement, crop nutrition, organic manures and fertilizers, irrigation and drainage, weed management, distribution of crops, cropping system, selection of crops and varieties for multiple cropping, crop yield contributing character; Organic farming concept, practices and scope in India; Crop production in dry lands, salt affected, acidic flood affected, waterlogged and eroded areas.

CROP PHYSIOLOGY

Plant cell-an introduction, laws of thermodynamics, diffusion and osmosis, the concept of water potential, cell water relations, absorption of water, transpiration, stomatal physiology, ascent of sap, ion uptake and metabolic utilization of mineral ions, deficiencies of mineral ions in plants, photosynthesis, respiration, fat metabolism, physiology of growth and development, growth regulators, physiological parameter influencing the productivity of major cereal, pulse and oilseed crops.

ELEMENTARY BIOCHEMISTRY, GENETICS AND PLANT BREEDING

Cell, Biomolecules, water, pH and buffer, cellular constituents; Structure and function- amino acids and protein, carbohydrates, lipids and biomembrances and nucleic acids. Enzymes-function, properties and mechanism, metabolism of cellular constituents; Central Metabolic Pathways: Derivative pathways- glycolysis, hexose mono phosphate pathways, degradation of starch, sucrose, other sugars, fatty acids and acylglycerols, proteins and amino acids; Biosynthetic path ways, photosynthesis, formation of sucrose and starch, Kreb's cycle and electron transport chain; Nitrogen and sulphur cycles; Nitrogen fixation, assimilation of ammonia, synthesis of DNA, RNA and proteins; Secondary metabolites- structure, function and metabolism, Pre-mendelian and post-mendelian concepts of heredity, mendelian principles of heredity, probability and chi-square, Cell and animal cell, chromosome structure. Cell division mitosis, meiosis, variation in chromosomes polytene chromosome, Lampbrush chromosomes. Dominance relationship gene interaction. Multiple alleles, pleiotropism and Pseudoalles. Sex determination, sex linkage, sex limited and sex influenced traits Linkage, crossing over mechanism, chromosomes mapping, structural change in chromosomes; Deletion and Duplication, Translocation and inversion, "Numerical changes in chromosomes, chemical basis of heredity" Gene concept, mode of replication of genetic material, transcript and translation genetic material. Gene regulation and operon concept. Mutation-Chemical and physical mutagenes, mode of action of mutagenes. Extra nuclear inheritance. Polygene and quantitative inheritance, plant tissue culture, principal and application.

MICROBIOLOGY

Microbial Cell Structure, Micro-organisms-Algae, Bacteria, Fungi, Actinomyceles, Protozoa and Viruses. Role of micro-organisms in respiration, fermentation organic matter decomposition.

ENTOMOLOGY

Introduction and scope of Entomology, Brief history of Entomology in India, Insects as Arthropods and its relationship with phylum Annelida and other classes of Arthropoda, origin of insects, major points related to dominance of insects in Animal Kingdom. External morphology and anatomy of grasshopper, body segmentation, integument, thorax and abdomen, antennae, legs and wings and their modifications, generalized mouth parts and their modification, Alimentary, Circulatory, Excretory, Respiratory, Reproductive and nervous system, major sensory organs like simple and compound eyes, chemoreceptors endocrine glands; basic embryology and post embryonic development basic groups of present day insects with special emphasis to order and families of agricultural importance.

PLANT PATHOLOGY

Importance of plant disease, scope and objectives of plant pathology, Concept of plant diseases inanimate cause and plant virus. Classification of plant disease, definition and terms, parasites, pathogens, biotrophs and hemibiotrophs, necrotrophs, pathogenicity, pathogenesis virulence, infection, primary infection, inoculum, invasion and colonization, inoculum potential, symptoms, incubation period, disease cycle, disease syndrome, single cycle disease, multiple cycle disease, alternate host, collateral host, predisposition, biotype symbiosis, mutualism, antagonism pathogenesis and parasitism, Koch's postulate. Effect of pathogenesis on the plants, morphological changes, physiological changes. Development of epidemics, Principles and methods of plant disease management. Basic concepts; avoidance, eradication, protection, disease resistance and therapy. General Morphology, characteristics of fungi and somatic structure, reproduction of various structure. Basic and different methods of classification of fungi, taxonomy and nomenclature. General morphological and cultural characters of prokaryotes. Bacteria, basic methods of classification, taxonomy and nomenclature. Nutrition and effects of physiochemical factors on growth. Reproduction and life cycle. Genetics and variability, importance and general characters of mycoplasma, spiroplasma & Fastidious bacteria, reproduction, nomenclature and classification. Physical architecture and chemical composition of virus and virioids. Nomenclature and criteria of identification, multiplication, transmission and infective nature. General morphological characters, life cycle, reproduction of nematodes behaviour in soil and nematodes as vectors for other plant pathogens. Classification and general identifying characters of phanerogames plant parasites, reproduction and life cycle.

LIVESTOCK PRODUCTION SCOPE AND IMPORTANCE

- (a) Importance of livestock in agriculture and industry, White revolution in India.
- (b) Important breeds Indian and exotic, distribution of cows, buffaloes and poultry in India. Care and management (a) Systems of cattle and poultry housing (b) Principles of feeding, feeding practices (c) Balanced ration- definition and ingredients (d) Management of calves, bullocks, pregnant and milch animals as well as chicks cockrels and layers, poultry (e) Signs of sick animals, symptoms of common diseases in cattle and poultry, Rinderpest, black quarter, foot and mouth, mastitis and haemorrhagic septicaemia coccidiosis, Fowl pox and Ranikhet disease, their prevention and control. Artificial Insemination: Reproductive organs, collection, dilution and preservation of semen and artificial insemination, role of artificial insemination in cattle improvement Livestock products: Processing and marketing of milk and Milk products.

CROP PRODUCTION

- (a) Targets and achievements in food grain 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 AND WATER MANAGEMENT

Soil as a natural body and medium for plant growth; soil component and soil plant relationship; soil farming rocks and minerals; weathering and process of soil formation; physical properties of soils-texture, structure, density and porosity, soil colour consistence and plasticity, soil reaction pH and its measurement, soil acidity and alkalinity, buffering, effect of pH on nutrient availability, soil colloids-inorganic and organic; silicate clays; constitution and properties; humic substances nature and properties; ion exchange, cation exchange capacity, base saturation, soil organic matter: composition, properties and influence on soil properties, transformation of organic and inorganic wastes in soil-Urban and Industrial wastes. Soil water retention, dynamics and availability; soil air composition and dynamic; source, amount and flow of heat in soils; soil temperature and plant growth; soil survey and classification, soil of India; soil pollution behaviour of pesticides and inorganic contaminants, prevention and mitigation of soil pollution, methods of irrigation and drainage.

WEED CONTROL

Introduction: Definition, costs to society from weeds, classification of weed, Ecology of weeds: Reproduction (Seed production, seed dissemination, seed germination, vegetative reproduction), geographical distribution, factor influencing weed distribution, weed succession on uncultivated sites, competition between crops and weeds. Concepts of prevention, eradication and control of weeds. Weed control methods: Physical, cultural, biological, chemical and integrated weed management, Introduction of herbicides: basic concepts, polar vs Non-polar, Esters, Salts, Acids etc., surfactant

Chemistry. Factors affecting foliage active herbicides: reaching the target plants, spray retention, absorption into leaf, translocation, and factors influencing soil applied herbicides: microbiological effect, soil absorption, photo decomposition and volatilization, spray of herbicides.

HORTICULTURE

Definition and its branches; importance and scope; horticultural and botanical classification; climate, soil and distribution of fruit crops; propagation and nursery raising; principles of orchard establishment and management; flower bud differentiation and propagation; causes of unfruitfulness; pollinizers and pollinators; environmental and soil factors affecting vegetable production, kitchen gardening; types of gardens and their parts; care and maintenance of ornamental plants; lawn making; knowledge of landscaping of rural and urban area; exposure to important medicinal and aromatic plants, spices and condiments, use of plant bioregulator in Horticulture, post-Harvest Technology-Principles and Practices.

FUNDAMENTALS OF EXTENSION EDUCATION

Meaning, concept and process of extension education. Objective, principles and philosophy of extension. Education-Formal and Non-formal. Components of behaviour-knowledge, attitude, skill and motivation. Principles and steps in teaching-learning process, learning situation. Implication of teaching. Concept, need and steps in programme planning. Principle of programme planning, Programme planning process.

AGRICULTURAL ECONOMICS

Nature and tools of Economic analysis, micro and macroeconomics, consumer behaviour, demand and supply, production, costs, firm, price determination, markets, welfare economics, consumption, saving and investment, business cycle, inflation, income and interest, agriculture in economic development, agricultural policies, role of infrastructure and technological change, land reforms, agricultural finance, rural credit, financial and economic appraisal measures, fundamental accounting and book keeping, financial statements, agricultural marketing, market functions, marketing institutions, trade, role of economics in natural resource accounting, allocation of renewable and non-renewable resources, farm records, farm planning and budgeting, production functions, decision making under risk and uncertainties, farm efficiency measures, resource use efficiency, returns to scale, diversification and insurance.

AGRICULTURAL ENGINEERING

Farm structures, farm house, dairy and poultry housing, farm site, food grain storage, elementary knowledge on engines /motors, common troubles and remedies, tractors and common farm equipments.

4.(B) SYLLABUS FOR BOTANY (10 MCQ)

BIODIVERSITY

Microbes, Algae, Fungi and introduction to Archegoniate, Bryophytes, Pteridophytes, Gymnosperms.

PLANT ECOLOGY AND TAXONOMY

Introduction, Ecological factors, plant communities, Ecosystem, Phytogeography, Introduction to plant taxonomy, Identification, Taxonomic evidences from palynology, Cytology, Phytochemistry and molecular data, Taxonomic hierarchy, Botanical nomenclature, Classification, Biometrics, Numerical taxonomy and cladistics.

PLANT ANATOMY AND EMBRYOLOGY

Meristematic and permanent tissues, Organs, Secondary Growth, Adaptive and protective systems, Structural organization of flower, pollination and fertilization, Embryo and endosperm, Apomixis and polyembryony.

PLANT PHYSIOLOGY AND METABOLISM

Plant- water relations, Mineral nutrition, Translocation in phloem, photosynthesis, Respiration, Enzymes, Nitrogen metabolism, Plant growth regulators, Plant response to light and temperature.

CELL AND MOLECULAR BIOLOGY

Techniques in Biology (Principles of microscopy, Light Microscopy etc.), Cell as a unit of Life, Cell Organelles (Mitochondria, Chloroplast, ER, Golgi body & Lysosomes, peroxisomes and Glyoxisomes, Nucleus), Cell Membrane and Cell Wall. Cell cycle, Genetic Material (DNA, DNA replication (Prokaryotes and Eukaryotes), Transcription (Prokaryotes and Eukaryotes), Regulation of gene expression.

ECONOMIC BOTANY AND BIOTECHNOLOGY

Origin of Cultivated Plants, Cereals, Legumes, Spices, Beverages, Oils and Fats, Fibre Yielding Plants, Introduction to Biotechnology, Plant tissue culture, Recombinant DNA Techniques.

GENETICS AND PLANT BREEDING

Heredity (Brief life history of Mendel, terminologies, laws of inheritance etc.), Sex-determination and Sex-Linked Inheritance Linkage and Crossing over, Mutations and Chromosomal Aberrations, Plant Breeding, Methods of crop improvement, Quantitative inheritance, Inbreeding depression and heterosis, Crop improvement and breeding.

ANALYTICAL TECHNIQUES IN PLANT SCIENCES

Imaging and related techniques (principles of microscopy, light microscopy, fluorescence microscopy etc.), Cell fractionation, Radioisotopes, Spectrophotometry, Chromatography, Characterization of proteins and nucleic acids, Biostatistics.

BIOINFORMATICS

Introduction to Bioinformatics, Databases in Bioinformatics, Biological Sequence database, Sequence Alignments, Molecular Phylogeny, Applications of Bioinformatics.

RESEARCH METHODOLOGY

Basic concepts of research, General laboratory practices, Data collection and documentation of observations, Overview of biological problems, methods to study plant cell/tissue structure, plant micro techniques, the art of scientific writing and its presentation.

4. (C) SYLLABUS FOR FORESTRY (10 MCQ)

SIVICULTURE

General Silvicultural Principles – Ecological and physiological factors influencing vegetation, natural and artificial regeneration of forests; methods of propagation, grafting techniques; site factors; nursery and planting techniques nursery beds, containers and maintenance, grading and hardening of seedlings; establishment and tending. Silviculture of some of the economically important species in India. Silviculture systems (Clear felling, uniform shelter wood selection, coppice and conversion systems), Management of silviculture systems of temperate, subtropical, humid tropical, dry tropical and coastal tropical forests; Thinning.

AGROFORESTRY

Agroforestry-Scope and necessity; Agro forestry systems under different agroecological zones; selection of species and role of multipurpose trees and NTFPs, techniques, food, fodder and fuel security. Social/Urban Forestry: Objectives, scope and necessity. JFM-Principles, objectives, Methodology, scope and benefits, National agroforestry policy.

FOREST SOILS AND WATERSHED MANAGEMENT

Forest Soils: Classification, factors affecting soil formation; physical, chemical and biological properties. Soil conservation-definition, causes for erosion; types-wind and water erosion; conservation and management of eroded soils/areas, wind breaks, shelter belts; sand dunes; water logged and other waste lands. Role of forests in conserving soils. Role of micro-organisms in ameliorating soils; N and C cycles. Watershed Management-Concepts of water shed; forest hydrology; landslide controls, rehabilitation of degraded areas; water harvesting and conservation; ground water recharge and watershed management.

ENVIRONMENTAL CONSERVATION AND BIODIVERSITY

Environment- Components and importance, principles of conservation, impact of deforestation; forest fires and various human activities like mining, construction and developmental projects, population growth on environment. Pollution-Types, Global warming, green house effects, ozone

layer depletion, acid rain, impact and control measures, environmental monitoring; concept of sustainable development. Control and prevention of air, water and noise pollution. Environmental impact Assessment.

TREE IMPROVEMENT

General concept of tree improvement, methods and techniques, variation and its use, provenance, seed source, exotics; quantitative aspects of forest tree improvement, seed production and seed orchards, progeny tests, use of tree improvement in natural forest and stand improvement, forest genetic resources and gene conservation in situ and ex-situ, application of DNA technology in forestry.

FOREST MANAGEMENT AND MENSURATION

Objective and principles; techniques; stand structure and dynamics, sustained yield relation; rotation, normal forest, growing stock; regulation of yield; management of forest plantations, commercial forests, forest cover monitoring. Forest Divisional Working plans. Methods of measuring –diameter, girth, height and volume of trees; form-factor; volume estimation of stand, current annual increment; mean annual increment, Sampling methods and sample plots. Yield calculation; yield and stand tables, forest cover monitoring through remote sensing; Geographic information Systems for management and modeling. Forest Surveying different methods of surveying.

FOREST ECOLOGY

Biotic and abiotic components, forest eco-systems; forest community concepts; vegetation concepts; ecological succession and climax, primary productivity, nutrient cycling and water relations. Forest types in India, identification of species. Composition and associations; dendrology, taxonomic classification, principles and establishment of herbaria and arboreta conservation of forest ecosystems.

FOREST RESOURCES AND UTILIZATION

Logging and extraction techniques and principles, transportation systems, storage and sale of Timber; Non-Timber Forest Products (NTFPs)- definition and scope; gums, resins, oleoresins and fibres, oil seeds nuts, rubbers, canes, bamboos, medicinal plants, charcoal, lac and shellac, katha and Bidi leave, need and importance of wood seasoning and preservation general principles of seasoning, air and kiln seasoning, composite wood; plywood, fibre boards, particle boards, wood substitution.

FOREST PROTECTION & WILDLIFE

Injuries to forest, insect-pests and disease, General forest protection against the equipment and methods, controlled use of fire. Rotational and controlled grazing, different methods of control

against grazing and browsing animals; effect of wild animals on forest regeneration; encroachment, poaching, shifting cultivation and control.

FOREST ECONOMICS AND LEGISLATION

Fundamental principles, cost-benefit analyses; estimation of demand and supply; Socioeconomic analysis of forest productivity and attitudes; valuation of forest goods and service. National Forest Policy, Forest laws, necessity; general principles, Indian Forest Act 1927, Forest Conservation Act, 1980, Wildlife Protection Act 1972 and their amendments.

FORESTS AND PEOPLE

Forests and its importance, forest societies, interactions with people, social and cultural factors, afforestation programmes, forest conflicts, wildlife and human conflicts, important forest movements, gender dimension, tribal economy, pastoralists, management of commons and Common Property Resources (CRPS) and open access resources, sustainable livelihood, food security, eco-tourism, land use change. Forest rights, customary rights of people, community participation, biodiversity and ethnobotany, global environmental change and land use, resettlement, poverty alleviation and forests, role of NGOs and other CBOs community based organizations.

4.(D) SYLLABUS FOR ZOOLOGY (10 MCQ)

ANIMAL DIVERSITY

Kingdom Protista Phylum Perifera Phylum Cnidaria, Phylum Platyhelminthes, Phylum Nemathelminthes, Phylum Annelida, Phylum Arthropoda, Phylum Mollusca, Phylum Echinodermata, Protochordates, Agnatha, Pisces, Amphibia, Reptiles, Aves, Mammals

COMPARATIVE ANATOMY AND DEVELOPMENTAL BIOLOGY OF VERTEBRATES

Integumentary System (derivatives of integument w.r.t. glands and digital tips) Skeletal System (evolution of visceral arches) Digestive System (brief account of alimentary canal and digestion glands) Respiratory System (gills, lungs, air sacs and swim bladder) Circulatory System (evolution of heart and aortic arches) Urinogenital System (Succession of kidney, Evolution of urino-genital ducts) Nervous System (comparative account of brain) Sense Organs (Types of receptors), Early Embryonic Development (Gametogenesis, fertilization etc), Late Embryonic Development (implantation of embryo in humans, formation of human placenta and functions etc), Control of Development (Fundamental processes in development gene activation, determination etc).

PHYSIOLOGY AND BIOCHEMISTRY

Nerve and muscle, Digestion, Respiration, Excretion, Cardiovascular system, Reproduction and Endocrine Glands, Carbohydrate Metabolism, Lipid Metabolism, Protein metabolism, enzymes.

GENETICS AND EVOLUTIONARY BIOLOGY

Introduction in Genetics, Mendelian Genetics and its Extension, Linkage, Crossing over and Chromosomal Mapping, Mutations, Sex Determination, History of Life, Introduction to Evolutionary Theories, Direct Evidences of Evolution, Processes of Evolutionary Change, Species concept, Macro evolution, Extinction.

ANIMAL BIOTECHNOLOGY

Introduction (concept and scope of biotechnology) Molecular Techniques in Gene manipulation (cloning vectors, restriction enzymes, transformation techniques etc) Genetically Modified Organisms (production of cloned and transgenic animals, applications of transgenic animals) production of transgenic plants, applications of transgenic plants), Culture Techniques and Applications.

APPLIED ZOOLOGY

Introduction to Host-Parasite Relationship, Epidemiology of Diseases, Rickettsiae and Spirochaetes, Parasitic Protozoa, Parasitic Helminthes insects of Economic Importance, Insects of Medical Importance, Animal Husbandry, Poultry Farming , Fish Technology.

AQUATIC BIOLOGY

Aquatic biomes (brief introduction of the aquatic biomes etc) Freshwater Biology (Lakes: origin and classification etc., Streams: Different stages of stream development etc.,) Marine Biology (salinity and density of sea water etc.,) management of Aquatic Resources (causes of pollution, Water quality assessment –BOD and COD etc.,).

IMMUNOLOGY

Overview of the Immune System, Cells and Organs of the Immune System, Antigens, antibodies Working of the immune system, Immune system in health and disease, vaccines.

REPRODUCTIVE BIOLOGY

Reproductive endocrinology (gonadal hormones and mechanism of hormone action steroids etc.,) Functional anatomy of male reproduction (outline and histological of male reproductive system in rat and human, testis, germcell etc.,) Functional anatomy of female reproduction (outline and histological of female reproductive system in rat and human, ovary, ovulation etc.,) Reproductive Health (Infertility in male and female, Assisted reproductive technology etc.,).

INSECT VECTORS AND DISEASES

Introduction to Insects, concept of vectors, Insects as vectors, dipteran as disease vectors, siphonaptera as disease vectors, Siphunculata as disease vectors, hemiptera as disease vectors.

SYLLABUS FOR DRIVER

1.English Language (25 MCQ): Candidates' understanding of the basics of English Language, its vocabulary, grammar, sentence structure, synonyms, antonyms and its correct usage, etc. and writing ability would be tested.

2.General Intelligence and Reasoning (25 MCQ): It will include questions of non-verbal type. The test will include questions on similarities and differences, space visualization, problem solving, analysis, judgment, decision making, visual memory, discriminating observation, relationship concepts, figure classification, arithmetical number series, non-verbal series etc. The test will also include questions designed to test the candidate's abilities to deal with abstract ideas and symbols and their relationship, arithmetical computation and other analytical functions.

3.Numerical Aptitude(25 MCQ): It will include questions on problems relating to Number Systems, Computation of Whole Numbers, Decimals and Fractions and relationship between Numbers, Fundamental arithmetical operations, Percentages, Ratio and Proportion, Averages, Interest, Profit and Loss, Discount, use of Tables and Graphs, Mensuration, Time and Distance, Ratio and Time, Time and Work, etc.

4.General Awareness (25 MCQ): Questions will be designed to test the ability of the candidate's general awareness of the environment around him and its application to society. Questions will also be designed to test knowledge of current events and of such matters of everyday observation and experience in their scientific aspects as may be expected of an educated person. The test will also include questions relating to India and its neighbouring countries especially pertaining to Sports, History, Culture, Geography, Economic scene, General Polity including Indian Constitution, and Scientific Research etc. These questions will be such that they do not require a special study of any discipline.

Syllabus for the Post of Forest Guard

A. General Awareness (30 MCQ):

Questions are designed to test the candidate's general awareness of the environment around him and its application to society. Questions are also designed to test knowledge of current event and of such matters of everyday observation and experience in their scientific aspect as may be expected of an educated person. The test will also include questions relating to India and its neighbouring countries especially pertaining to History, Culture, Geography, Economics, General Policy and science.

B. Arithmetic & Mental Ability and Reasoning (30 MCQ)

The questions will be designed to test the ability of appropriate use of numbers and number sense of the candidate. The part will include questions on problems relating to number system, computation of whole numbers, decimals and fractions, relationships between numbers, fundamental arithmetical operations, percentage, ratio and proportion, average, interest, profit and loss, discount, use of tables and graphs, menstruation time and distance ratio and time etc.

It would include questions of both verbal and non-verbal type. The test will include questions on Semantic analogy, Symbolic operations, Symbolic/Number analogy, Trends, Figural analogy, Space orientation, Semantic classification, Venn diagrams, Symbolic/ Number classification, Drawing inferences, Figural classification, Punched hole / Pattern-folding and unfolding, Semantic series, Figural pattern-folding and Completion, number services, Embedded figures, Figural series, Critical thinking, Problem solving, Emotional intelligence, Word building, Social intelligence, Coding and decoding, other sub-topics, if any numerical operations.

C. General English (10 MCQ)

Spot the error, Fill in the blanks, Synonyms/Homonyms, Antonyms, Spellings/Detecting mis-spelt words, Idioms & phrases, One word substitution, Improvement of sentences, Active/Passive voice of verbs, Conversion into Direct/Indirect narration, Shuffling of Sentence parts, Shuffling of Sentences in a passage, Cloze Passage, Comprehension Passage.

Contd....

D. **Science of Intermediate level(30 MCQ):-**

Chemistry

Some basic concepts of Chemistry, Structure of atom, Classification of elements and Periodicity in properties, Chemical bonding and Molecular structure, States of matter: Gases and Liquids, Thermodynamics, Equilibrium, Redox reactions, Hydrogen, s-Block elements (Alkali and Alkaline earth metals), Group 13 and 14 p-Block elements, Organic chemistry-some basic principles and techniques, Hydrocarbons, Environmental Chemistry.

Solid state, Solutions, Electrochemistry, Chemical kinetics, Surface chemistry, General principles and processes of isolation of elements, Group 15,16, 17 & 18 p-Block elements, d and f Block elements, Coordination compounds, Haloalkanes and Haloarenes, Alcohols, Phenols and Ethers, Aldehydes, Ketones and Carboxylic acids, Organic compounds containing Nitrogen, Biomolecules (Carbohydrates, Proteins, Hormones, Vitamins, Nucleic acids), Polymers, Chemistry in everyday life (Chemicals in medicines, Chemicals in food, Cleansing agents).

Physics

Physical world and measurement, Kinematics, Laws of motion, Work, Energy and Power, Motion of system of particles and rigid body, Gravitation, Properties of bulk matter, Thermodynamics, Behaviour of perfect gas and Kinetic theory, Oscillations and Waves

Electrostatics, Current electricity, Magnetic effect of current & magnetism, Electromagnetic induction and alternating current, Electromagnetic waves, Optics, Dual nature of matter and radiation, Atoms & nuclei, Electronic devices, Communication systems.

Biology

Diversity in living world, Structural organisations in Animals and Plants, Cell structure and function, Plant physiology (Transport in plants, Mineral nutrition, Photosynthesis, Respiration, Plant growth and development), Human physiology (Digestion and absorption, Breathing and Respiration, Body fluids and circulation, Excretory products and their elimination, Locomotion and Movement, Neural control and coordination, Chemical coordination and regulation).
