



# TAMIL NADU PUBLIC SERVICE COMMISSION

**Advertisement No. 665**  
**Notification No. 16/2023**

**DATED: 20.09.2023**

Applications are invited from eligible candidates only through online mode upto **19.10.2023** for direct recruitment to the posts of **Research Assistant in the Institute of Veterinary Preventive Medicine, Ranipet** included in the Tamil Nadu Animal Husbandry Service and **MANAGER (VETERINARY)** in the Tamil Nadu Co-operative Milk Producer's Federation Limited.

Examination for the posts shall be conducted in Computer Based Test (CBT) Method.

## WARNING

- *All recruitments by the Tamil Nadu Public Service Commission are purely merit based.*
- *The Tamil Nadu Public Service Commission hereby cautions the applicants against touts and agents who may cheat, by making false promises of securing jobs through unfair means.*
- *The Tamil Nadu Public Service Commission shall not be responsible or liable for any loss that may be caused to any applicant on account of indulging in any sort of dealings with such unscrupulous elements.*
- *Applicants are solely responsible for their claims in the online application. They cannot blame service providers like internet cafes/browsing centres/Common Service centres for the mistakes made while applying online for recruitment. Applicants are advised to check the filled in online application along with required documents (see Annexure II) before finally submitting the same.*
- **The applicants shall mandatorily upload the certificates / documents (in support of all the claims made / details furnished in the online application) at the time of submission of online application itself. It shall be ensured by the applicants that the online application shall not be submitted without uploading the required certificates.**
- **Applicants are directed to read all the information / instructions / guidelines given in this notification and the Commission's "Instructions to applicants" before applying for this recruitment. Clarification if any required, may be obtained over phone and email well ahead of the last date for submission of online application. Candidates should follow the instructions given in the online application also.**

### 1. ONE TIME REGISTRATION:

It is mandatory for applicants to register their basic particulars through one - time online registration system on payment of Rs. 150/- (Rupees One hundred and fifty only) towards registration fee and then they should apply online for this recruitment. [The one-time registration will be valid for five years from the date of registration. Thereafter, the registration should be

renewed by paying the prescribed fee.] **One Time Registration will not be considered as an application for any post.** For further details refer para 2 of the "Commission's Instructions to Applicants".

## **2. DETAILS OF VACANCIES:**

<b>Name of the post</b>	<b>Name of the service</b>	<b>No. of vacancies</b>	<b>Scale of pay</b>
<b>Research Assistant in the Institute of Veterinary Preventive Medicine, Ranipet (Post Code No.1694)</b>	<b>Tamil Nadu Animal Husbandry Service (Service Code No. 019)</b>	<b>13+1* (*carried forward)</b>	<b>Rs.56,100-2,05,700 (Level 22) (Revised scale)</b>
<b>Manager (Veterinary) in Tamil Nadu Co-operative Milk Producer's Federation Limited (Post Code No. 3260)</b>	<b>Tamil Nadu Co-operative Milk Producer's Federation Limited  (Service Code No.125)</b>	<b>24</b>	<b>Rs.55,500-1,75,700 (Level 21) (Revised scale)</b>

**Note: Unless and otherwise specified, the number of vacancies notified is approximate and is liable to modification as indicated in [para.11-A of 'Instructions to Applicants'](#).**

## **3. DISTRIBUTION OF VACANCIES**

The Rule of reservation of appointments is applicable to this post.

The distribution of vacancies is as follows.

### **Post of Research Assistant**

**Carried forward vacancy: 1 - ST (G) - 1**

**Regular Vacancies: 13**

<b>03</b>	<b>01</b>	<b>02</b>	<b>01</b>	<b>01</b>	<b>01</b>	<b>01</b>	<b>01</b>	<b>01</b>	<b>01</b>	<b>01</b>	<b>13</b>
GT(G)	GT (W) (DAP) HH	BC (G)	BC(G) (PSTM)	BC(W)	BC (M) (G)	MBC/DC (G)	MBC/DC (W)	SC (G)	SC (W)(PSTM)	TOTAL	

**Post of Manager (Veterinary) in Tamil Nadu  
Co-operative Milk Producers' Federation Limited  
Vacancies: 24**

03	01	01	02	03	01	02	01	03	01	01	01	01	02	01	24
GT(G)	GT (G) (PSTM)	GT (G) (DAP) HH	GT (W)	BC (G) (OBCM)	BC(G) (PSTM)	BC(W)	BC (M) (G)	MBC /DC (G)	MBC/DC (G) (PSTM)	MBC/DC (W)	SC (G)	SC (G)(PSTM)	SC (W)	SC(A) (PSTM)	TOTAL

**Abbreviations:-** GT- General Turn; BC (OBCM) - Backward Class (Other than Backward Class Muslims); BC(M) - Backward Class Muslims; MBC/DC - Most Backward Class / De-notified Community; SC - Scheduled Caste; SC(A) - Scheduled Caste - Arunthathiyar; ST – Scheduled Tribes; G – General; W – Women; PSTM- Persons Studied in Tamil Medium; HH – Hard of Hearing;

**4. IMPORTANT DATES AND TIME:**

Date of Notification		<b>20.09.2023</b>
Last date for submission of online application		<b>19.10.2023</b>
Application Correction Window Period		<b>From 24.10.2023 12.01 A.M to 26.10.2023 11.59 P.M</b>
<b>Date of examination (Computer Based Test)</b>		
<b>Research Assistant in the Institute of Veterinary Preventive Medicine, Ranipet</b>	<b><u>Paper – I</u> Paper – 1 Subject Paper Animal Husbandry and Veterinary Science (Post Graduate Degree Standard)</b>	<b>09.12.2023 09.30 A.M. to 12.30 P.M.</b>
<b>Manager (Veterinary) in Tamil Nadu Co-operative Milk Producers' federation limited , Research Assistant in the Institute of Veterinary Preventive Medicine, Ranipet</b>	<b><u>Paper – II</u> PART A Tamil Eligibility Test (SSLC Std) and PART B General Studies (Degree Std)</b>	<b>09.12.2023 02.30 P.M. to 05.30 P.M.</b>
<b>Manager (Veterinary) in Tamil Nadu Co-operative Milk Producer's Federation Limited</b>	<b><u>Paper-I</u> : Subject paper Animal Husbandry and Veterinary Science (UG Degree Standard)</b>	<b>10.12.2023 09.30 A.M. to 12.30 P.M.</b>

**Note:** Refer [Annexure-V](#) of this notification regarding tentative timeline for the recruitment process.

## 5. QUALIFICATIONS:

### (A) AGE LIMIT (as on 01.07.2023):

Sl. No.	Post	SCs, SC(A)s, STs, MBC/DCs, BC(OBCM)s, BCMs and Destitute Widows of all categories.	'Others' [i.e. candidates not belonging to SCs, SC(A)s, STs, MBCs/DCs, BC(OBCM)s and BCMs]
1.	Research Assistant in the Institute of Veterinary Preventive Medicine, Ranipet	No Maximum Age limit	32 years <sup>@</sup>
2.	Manager (Veterinary)	No Maximum Age limit	32 years <sup>@</sup>

### Note:

- @ In G.O (Ms).No.91, Human Resources Management (S) Department, dated 13.09.2021, Maximum Age Limit prescribed for appointment by direct recruitment is enhanced by 2 years. [30 years to 32 years]

Explanation: No maximum age limit shall mean that the applicants should not have completed 60 years of age either on the date of notification or at the time of selection /appointment to the post.

- "Others" [i.e., Applicants not belonging to SCs, SC(A)s, STs, MBC/DCs, BC(OBCM)s, BCMs] who have put in five years and more of service in the State/Central Government are not eligible even if they are within the age limit. (For further details refer to [para 3\(F\) of "Instructions to Applicants", Section 3\(r\) of Tamil Nadu Government Servants \(Conditions of Service\) Act, 2016](#))

### **AGE CONCESSION:**

#### (i) For Persons with Benchmark Disability:

Persons with Benchmark Disability are eligible for age concession upto 10 years over and above the maximum age limit prescribed.

(Section 64 of the Tamil Nadu Government Servants (Conditions of Service) Act, 2016)

#### (ii) For Ex-servicemen:-

- The maximum age limit for Ex-servicemen is 50 years.

(Section 63 of the Tamil Nadu Government Servants (Conditions of Service) Act, 2016 and as per G.O (Ms). No.91, Human Resources Management (S) department, dated 13.09.2021)

- The above mentioned age concession **will not apply** to the Ex-servicemen applicants who have already been recruited to any class or service or category.

(Section 3(j) of the Tamil Nadu Government Servants (Conditions of Service) Act, 2016)

**(B) EDUCATIONAL QUALIFICATION (as on 20.09.2023)**

Applicants should possess the following or its equivalent qualification awarded by any University or Institution recognised by the University Grants Commission.

<b>Name of the Post</b>	<b>Educational Qualification</b>
Research Assistant in the Institute of Veterinary Preventive Medicine, Ranipet	1. M.V.Sc., (Micro-biology/ Pathology/ Parasitology / Dairy Micro-biology / Animal Biotechnology); and 2. Must have passed SSLC Examination or its equivalent examination with Tamil as one of the languages and 3. Registered as Veterinary Practitioner with the Tamil Nadu State Veterinary Council constituted under the Indian Veterinary Council Act, 1984 (Central Act 52 of 1984)
Manager (Veterinary) in Tamil Nadu Co-operative Milk Producer's Federation Limited	1) Must possess a Degree in veterinary Science from recognized University. (now known as B.V.Sc & A.H) and 2) Must have registered with Veterinary Council.

**Note:**

- (i) The educational qualification prescribed for the posts should have been obtained by passing the required qualification in the following order of studies: 10<sup>th</sup> + HSC or its equivalent + Bachelor's Degree + PG Degree from recognised Institution as required under Section 25 of the Tamil Nadu Government Servants (Conditions of Service) Act, 2016. **Results of the examination should have been declared on or before the date of notification.** (Section 20(4)(iv) of the Tamil Nadu Government Servants (Conditions of Service) Act, 2016).
- (ii) Applicants claiming equivalence of qualification to the prescribed qualification should upload and submit evidence for equivalence of qualification, in the form of Government Order issued on or before the date of this notification, and submit it along with the online application, failing which, their application **will be rejected after due process**. The Government Orders regarding equivalence of qualification issued after the date of this notification will not be accepted.

(For further details regarding equivalence of qualification refer note under para.9 of the ["Instructions to Applicants"](#)).

**(C) KNOWLEDGE IN TAMIL:-**

Applicants should possess adequate knowledge in Tamil. [For further details refer para 10 of 'Instructions to Applicants']

**(D) CERTIFICATE OF PHYSICAL FITNESS:**

Applicants selected for appointment to the said post will be required to produce a certificate of physical fitness in the form prescribed below. The model format is enclosed with **Annexure III** of the notification. **The said Certificate should be submitted by the selected candidate to the Appointing Authority at the time of joining to the said post.**

Post	Standard of vision	Certificate of physical fitness
Research Assistant	Standard III or better	Form prescribed for Executive post
Manager (Veterinary)	Standard III or better	Form prescribed for Executive post

**For both posts:**

Applicants with defective vision should produce Eye Fitness Certificate from a qualified Eye Specialist working in Government Hospital.

**FEES:**

a)	<p><b><u>Registration Fee</u></b> For One Time Registration (G.O.(Ms).No.32, Personnel and Administrative Reforms (M) Department, dated 01.03.2017). <b><u>Note</u></b> Applicants who have already registered in One Time online Registration system and are within the validity period of 5 years are exempted.</p>	Rs.150/ -
b)	<p><b><u>Examination Fee</u></b> <b><u>Note</u></b> The Examination fee <b>should be paid</b> at the time of submitting the online application for this recruitment if they are not eligible for the concession noted below.</p>	Rs.200/ -

**Note:**

- (i) Linking Aadhaar number with One Time Registration (OTR) is mandatory for applicants. [ For further details refer para 2B of 'Instructions to Applicants'. ]
- (ii) One Time Registration is valid for five years from the date of registration. After completion of five years, the applicant must renew the One Time Registration by

paying the fee prescribed. An applicant should make an online application separately for each and every examination for which he intends to appear. [Para 2C of 'Instructions to Applicants'.]

**EXAMINATION FEE CONCESSIONS:**

	<b>Category</b>	<b>Concession</b>
(i)	Scheduled Castes/ Scheduled Caste (Arunthathiyars)	Full Exemption
(ii)	Scheduled Tribes	Full Exemption
(iii)	Most Backward Classes/ Denotified Communities	Three Free Chances
(iv)	Backward Classes (Other than Muslim) / Backward Classes (Muslim)	Three Free Chances
(v)	Ex-Servicemen	Two Free Chances
(vi)	Persons with Benchmark Disability	Full Exemption
(vii)	Destitute Widow	Full Exemption

**Note:**

**(i)** The total number of free chances availed, will be calculated on the basis of claims made in previous applications.

**(ii)** The number of free chances availed by the applicant may be verified by the Commission at any stage of the selection process.

**(iii)** In case an applicant who makes a false claim for exemption from payment of application fee by suppressing information regarding his/ her previous application(s) his/her candidature shall be rejected after due process and he/she shall be debarred for a period of one year from appearing for examinations and selections conducted by the Commission.

**(iv)** Applicants are directed to carefully choose the options 'Yes' or 'No' regarding availing the fee concession.

**(v)** Applicants are advised in their own interest, to keep an account of the number of times fee concession has been availed, irrespective of the information displayed in the <Application History> of the applicant dashboard.

**(vi)** An application (irrespective of the post applied for) claiming fee concession will operate to exclude one chance from the number of free chances allowed.

**(vii)** Applicants who have availed the maximum number of free chances permitted / applicants who do not wish to avail of the fee concession / applicants who are not eligible for fee concession, shall choose the option 'No' against the query regarding fee concession. Such applicants shall thereafter pay the requisite fee through the prescribed mode of payment.

**(viii)** Failure to pay the prescribed fee in time along with the online application, will result in the rejection of application after due process. [\(for further details regarding examination fee concessions refer to Para 6 of 'Instructions to Applicants'\)](#)

## **7. MODE OF PAYMENT OF EXAMINATION FEE:**

- (i) CBT Examination fee of Rs.200/- (Rupees Two hundred only), is payable by online mode through Net Banking / Credit card / Debit card on or before the last date of submission of online application by choosing the option in the online application.
- (ii) Applicants have also to pay the service charges as applicable.
- (iii) Applicants can avail exemption from paying examination fee as per eligibility criteria.
- (iv) **Offline mode of payment in the form of Demand Draft / Postal Order etc. will not be accepted and the applications forwarded with such modes of payment will be summarily rejected.**

[\(For further details regarding the Examination fee, refer para. 2\(J\) of "Instructions to Applicants"\)](#).

## **8. CONCESSIONS:**

- (i) Concessions in the matter of age and/or examination fees allowed to SCs, SC(A)s, STs, MBCs/DCs, BC(OBCM)s, BCMs, Destitute Widows, Persons with Benchmark Disability and Ex-servicemen are given in [paras. 3D, 5 and 6 of the 'Instructions to Applicants'](#).
- (ii) Persons claiming concessions referred to above and other claims made in the application have to upload evidence along with online application for such claims, otherwise their application will be rejected after due process.

### **Note:**

In all cases, an **Ex-serviceman once recruited** to a post in any class or service or category, **cannot claim the concession** of being called an Ex-serviceman for his further recruitment. [\(Section 3\(j\) of the Tamil Nadu Government Servants \(Conditions of Service\) Act, 2016\)](#).

### 9. SCHEME OF EXAMINATION: OBJECTIVE TYPE (CBT METHOD) AND ORAL TEST:

Subject	Duration	Maximum Marks	Minimum qualifying marks for selection	
			SCs, SC(A)s, STs, MBCs/ DCs, BC(OBCM)s & BCMs	Others
<p align="center"><b>EXAMINATION in COMPUTER BASED TEST Method</b></p>				
<p><b>(i) Paper I Subject Paper - 200 Questions</b></p> <p><b><u>For the post of Research Assistant in the Institute of Veterinary Preventive Medicine, Ranipet</u></b></p> <p>Animal Husbandry &amp; Veterinary Science</p> <p><b>(Post Graduate Degree Standard)</b> (Code No.397)</p> <p><b><u>For the post of Manager (Veterinary) in Tamil Nadu Co-operative Milk Producer's Federation Limited</u></b></p> <p>Animal Husbandry &amp; Veterinary Science (UG Degree Standard) (Code No:396)</p>	<b>3 Hours</b>	<b>300</b>	<b>153</b>	<b>204</b>
<p><b>(ii) Paper II (Total 200 questions)</b> (Common for Both posts)</p> <p align="center"><b>Part-A</b></p> <p><b>Tamil Eligibility Test * (SSLC Std)</b> <b>(100 questions)</b></p>	<b>1 1/2 Hours</b>	<b>150</b>	}	
<p align="center"><b>Part-B</b></p> <p><b>(General Studies) (Code No.003)</b> <b>(100 questions)</b></p> <p><b>General Studies (Degree Std) -75</b> questions and <b>Aptitude &amp; Mental Ability Test</b> (SSLC Std.) -<b>25</b> questions</p>	<b>1 1/2 Hours</b>	<b>150</b>		
<p><b>(iii) Interview and Records</b></p>		<b>60</b>		
<b>Total</b>		<b>510</b>		

- a) Minimum qualifying marks –60 marks (40% of 150) in Part-A of Paper-II
- b) Answer sheets of Paper-I and Part B of Paper II of the candidates will not be evaluated, if the candidate does not secure minimum qualifying marks in Part-A of Paper-II.
- c) *Marks secured in Part-A of Paper-II will not be taken into account for ranking.*
- d) Only marks secured in Paper-I and Part-B of Paper-II will be considered for ranking.
- e) The questions in paper I will be set in English only and Part–B of Paper-II will be set both in Tamil and English.
- f) The candidate should appear for all the papers in the CBT examination for his / her answers to be evaluated and in case the candidate absents himself / herself for any of the papers, the papers attended will not be evaluated.
- g) If answers of a candidate for one paper is declared deemed not fit for valuation, the answers of the candidate for the remaining papers will not be evaluated.
- h) As per the orders issued in G.O.(Ms) No.49, Human Resources Management (M) Department, dated 23.05.2022, the differently abled candidates can avail exemption from writing Part-A in Paper-II (Objective Type) (Tamil Eligibility Test). Such candidates have to furnish the required details in the online application without fail. Subsequent claim will receive no attention. The candidates need to upload Disability Certificate as prescribed in G.O. (Ms) No. 08, Welfare of Differently Abled Persons (DAP-3.2) Department dated 21.09.2021. Model format enclosed with Appendix to Annexure –III of this notification.

**Instructions to the candidates who have been exempted for Tamil Eligibility Test:**

- i. As per the orders issued in G.O. (Ms.) No.49, Human Resource Management (M) Department, dated 23.05.2022, read alongwith G.O. Ms.No.8, Welfare of Differently Abled Persons (DAP 3.2) Department, dated 21.09.2021, the differently-abled candidates who are even below the 40% of disability can also avail the exemptions from writing Tamil Eligibility Test i.e Part-A in Paper-II of examination if they have claimed such exemptions in their online application.
- ii. The candidates who have been exempted to write Tamil Eligibility Test shall be allowed to write only **General Studies Paper** i.e. Part-B in Paper-II.
- iii. **All the exempted candidates with disability who have physical limitation with regard to writing, including that of speed and not availing the services of a scribe shall also be allowed compensatory time of a minimum of thirty minutes for an examination of one and a half hours (1 ½ hrs.) duration in the General Studies paper as per G. O. Ms.No.8, Welfare of Differently Abled Persons (DAP 3.2) Department, dated 21.09.2021.**
- iv. The said exempted candidates must also enter into the examination hall in the AN session half an hour before the commencement of examination. All the candidates are permitted to leave the examination hall only after the closure of examination even though they are exempted to write Tamil Eligibility Test.
- v. The disability certificate as prescribed in the Appendix to G.O. (Ms.) No. 8, Welfare of Differently Abled Persons (DAP 3.2) Department, dated 21.09.2021, should be obtained from the competent authority (viz. Chief Medical Officer / Civil Surgeon / Medical Superintendent /Notified Medical Authority of a Government Health Care Institution) and it has to be produced / uploaded along with the online application failing which, the application of the candidate (who claims exemption from Tamil Eligibility Test) will be rejected after due process.

- vi. The exemption from Tamil Eligibility Test, Compensatory time and scribe will be provided only if the candidates have made such claims in their online application and uploaded the Medical Certificate as prescribed in Appendix to the G.O. (Ms.) No. 8, Welfare of Differently Abled Persons (DAP 3.2) Department, dated 21.09.2021
- a) Refer to [para.17 of "Instructions to Applicants"](#) with regard to Instructions to be followed while appearing for competitive Examinations (CBT Method) conducted by the Commission.
- b) The syllabus for CBT examination is available in [Annexure-I](#) to this Notification.

### **Instructions to candidates appearing for Computer Based Test (CBT)**

The candidate has to appear for the examination where he has been allotted to the examination. Change of centre or venue is not permitted. He has to carry the Hall Ticket (Admission Card) and same has to be produced at the examination venue. Each candidate will be assigned a Computer to take up the examination. Candidates will be provided with a user name and password to login the system. Necessary instructions will be displayed on screen. Kindly read all the instructions carefully.

- i. Candidates are not permitted to carry any electronic and / or communication device into the examination hall. They are advised not to bring the electronic gadgets with them.
- ii. Computer Based online Test (CBT) is similar to paper pen shading test.
- iii. In Computer Based online Test, questions with five options each will be displayed in the computer screen.
- iv. Candidate can use only the mouse to select the correct answers and proceed with answering the questions.
- v. Candidates will be provided with a paper for doing rough work. After closure of the examination, rough sheet will be collected.
- vi. Candidate has to click the best answer to the question. Candidates can proceed to the next question by clicking next button. Or previous question by clicking previous button
- vii. Candidates can review any question and the answers, and the answers can be changed at any time before the closure of examination. They can skip the questions also, if they desire so.
- viii. The Question and optional answers will be shuffled randomly and displayed to the candidate.
- ix. Candidate can submit their answers at any time during the examination.
- x. Once the answers are submitted, the candidates have no option to proceed further.
- xi. If the candidate fails to submit their answers, the system will automatically submit the answers to the server, at the closure of the examination.
- xii. No computer knowledge is required to take up the Computer Based online Test. Knowledge in Mouse operation is suffice to take up the Computer Based online Test.
- xiii. The question and answers can be zoomed to the required level for the candidates with visual impairment. Candidates have to sign the attendance sheet and affix thumb impression for verification of his/her identity. All the activities of the candidates with the mouse will be recorded in the server and a log file will be created for future reference. The Examination Hall will be under camera surveillance. To acquaint with the operation of

Mouse and the CBT, the candidates can take up the mock test available in the Commissions website ([www.tnpsc.gov.in](http://www.tnpsc.gov.in)) and they can practice the usage of mouse in the mock test. Mock test is similar to the CBT to be held on the day of examination. In the Mock test, all the steps are given similar to the CBT. Candidate can practice the mock test as many times as he/she likes.

- xiv. Answer sheet answered other than the subject mentioned by the candidate in the online application /specified in the Hall Ticket will be invalidated.
- xv. Additional instruction for Computer Based Test (CBT) is provided at Annexure IV.

## 10. CENTRES FOR EXAMINATION:

Sl.No	Name of the Centre	Centre Code
1.	Chennai	0101
2.	Coimbatore	0201
3.	Madurai	1001

### Note:

- (i) Applicants should choose any two of the above centres for CBT examination. Applicants will be allotted a venue in one of these two centres. However, Differently Abled Persons applicants will be permitted to choose one Centre (for further details refer para 2(Q) of [Instructions to Applicants](#))
- (ii) Request for change of examination centre will not be permitted (For further details refer [Para 17\(A\)\(ii\) of "Instructions to Applicants"](#))
- (iii) The Commission reserves the right to increase or decrease the number of examination centres and to re-allot the applicants accordingly.
- (iv) Applicants should appear for the CBT examinations / certificate verification / oral test at their own expenses.

## 11. SELECTION PROCEDURE:

Selection will be made in two successive stages i.e., (i) Examination (Computer Based Test Method) and (ii) Oral Test in the shape of an interview. The final selection will be made on the basis of the total marks obtained by the applicants at the CBT examination and oral test taken together subject to the rule of reservation of appointments. Applicants' appearance in the CBT examination and oral test is compulsory. The applicant who has not appeared for any of the subjects in the CBT examination or Oral Test will not be considered for selection, even if he/she secures the minimum qualifying marks for selection. (For further details refer to para 18(B) of the 'Instructions to Applicants').

### Note:

Firstly the selection will be made for carried forward vacancies for the posts of Research Assistant in the Institute of Veterinary Preventive Medicine, Ranipet. [[Section 27 of the Tamil Nadu Government Servants \(Conditions of Service\) Act, 2016](#)]. Secondly, the selection will be made for regular vacancies for the posts of Research Assistant in the Institute of Veterinary Preventive Medicine, Ranipet following the rule of reservation.

## 12. (A) EMPLOYMENT DETAILS

Candidates who are in the service of the Indian Union or a State in India or in the employment of Local Bodies or Universities or Quasi Government Organizations or Public Sector Units constituted under the authority of the Government of India or of a State in India, whether in regular service or in temporary service must inform the Commission of such fact, at the time of applying. Suppression of the fact of employment by candidates shall result in rejection of candidature after due process. Candidates should produce No Objection Certificate when called for [For further details refer para. 14 (P) of "Instructions to Applicants"]

## (B) DECLARATION REGARDING CRIMINAL CASES (OR) DISCIPLINARY CASES:

- (i) Candidates who have declared pending criminal or disciplinary cases in their online application, must upload the copy of First Information Report (FIR) or memorandum of charges / show cause notice, as the case may be. Failure to upload such papers along with online application, shall result in rejection of candidature after due process.
- (ii) Candidates who have declared conviction in criminal cases or punishment in disciplinary cases, in their online application, must upload the relevant court orders and/or release orders or memorandum of proceedings, as the case may be, along with online application. Failure to upload such papers, shall result in rejection of candidature after due process.
- (iii) In case of any criminal case is filed / disciplinary action is taken against or conviction / punishment is imposed on a candidate after submission of the on-line application at any stage of the recruitment process before the completion of entire selection process such candidates should report this fact to the Commission in the next immediate stage. Failure to comply with these instructions shall result in rejection of candidature after due process and debarment for a period of one year. [Para. 14 (S) & 2W of "Instructions to Applicants"]. Any violation of instruction therein will result in rejection of application and forfeiture of his/her candidature after due process.

## 13. GENERAL INFORMATION:

(A) The rule of reservation of appointments is applicable to this recruitment.

### **(B) Person Studied in Tamil Medium**

- (i) As per Section 2(d) of the Tamil Nadu Appointment on preferential basis in the services under the State of Persons Studied in Tamil Medium Act, 2010, as amended by Act 35 of 2020, **Person studied in Tamil medium means a person who has studied through Tamil medium of instruction upto the educational qualification prescribed for direct recruitment in the rules or regulations or orders applicable to any appointment in the services under the State.**
- (ii) Candidates claiming to be Persons studied in Tamil Medium (PSTM) must upload evidence for the same in the form of SSLC, HSC, Transfer Certificate, Provisional Certificate, Convocation Certificate, Degree Certificate, PG Degree Certificate, Mark Sheets, Certificate from the Board or University or from the Institution, as

the case may be, with a recording that he/she had studied **the entire duration of the respective course(s) through Tamil Medium of instruction at the time of submission of online application.**

- (iii) Candidates must upload documents as evidence of having studied in the Tamil medium, all educational qualification upto the educational qualification prescribed **at the time of submission of online application.**

Example:

***If the prescribed educational qualification is Degree, then the candidate should have studied from the First standard to SSLC, Higher Secondary Course and Degree through Tamil Medium of instruction.***

- (iv) If no such document as evidence for 'PSTM' is available, a certificate from the Principal / Head Master / District Educational Officer / Chief Educational Officer / District Adi Dravidar Welfare Officer / Registrar / Controller of Examinations / Head / Director of the Educational Institution, Director / Joint Director of Technical Education / Registrar of Universities as the case may be, in the prescribed format must be uploaded **at the time of submission of online application**, for each and every educational qualification up to the educational qualification prescribed.

- (v) Failure to upload such documents **at the time of submission of online application** as evidence for 'Persons Studied in Tamil Medium' for all educational qualification up to the educational qualification prescribed, shall result in the rejection of candidature after due process.

- (vi) Documents uploaded **at the time of submission of online application** as proof of having studied in Tamil medium, for the partial duration of any course / private appearance at any examination, shall not be accepted and shall result in the rejection of candidature after due process.

(For further details refer to para. 14 (R) & 2W of the "Instructions to Applicants")

- (C) The selection for appointment to the said post is purely provisional subject to the final orders in the writ petitions, if any, pending on the files of the Hon'ble High Court of Madras and its Madurai Bench.

- (D) **As per Sections 26 and 27(c) of the Tamil Nadu Government Servants (Conditions of Service) Act, 2016**, reservation of appointment to "Destitute Widows" and "Ex-servicemen" will not apply to this recruitment.

**(E) PERSONS WITH BENCHMARK DISABILITY :**

The post of Manager (Veterinary ) as ordered in(G.O.(Ms.) No.08, Welfare of Differently Abled Persons (DAP 3.2) Department, dated 15.07.2020), Research Assistant in the Institute of Veterinary Preventive Medicine as ordered in (G.O.(Ms.) No.20, Welfare of Differently Abled Persons (DAP 3.2) Department, dated 20.06.2018) have been identified as suitable for differently abled persons with the following disabilities.

S.No	Post	Suitable category of disability
1.	Research Assistant	LV, HI, HH, LD, CP, LC, DF, AC, MuD, SLD, MD
2.	Manager (Veterinary)	HH, LD ( OA, OL), AC

[LV – Low Vision; HI –Hearing Impaired; HH – Hard of Hearing; LD-Lo-co-motor Disability; (OA- One Arm, One Leg), CP – Cerebral Palsy; LC – Leprosy Cured; DF – Dwarfism; AC – Acid Attack Victims; MuD–Muscular Dystrophy; SLD –Specific Learning Disability; MD –Multiple Disability]. [However, the turns allotted for differently abled persons for the post of Research Assistant.](#)

Persons with Benchmark Disability should submit / upload **at the time of submission of online application** a copy of Disability Certificate in the format prescribed in the Rights of Persons with Disabilities Rules, 2017 [Department of Empowerment of Persons with Disabilities (Divyangjan), Ministry of Social Justice and Empowerment, Government of India] and issued by the competent authority defined in GO Ms. No. 28, Welfare of Differently Abled Persons (DAP 3.1), dated 27.07.2018.[\[For further details refer Para. 14 \(M\) of "Instructions to Applicants"\]](#)

- (F) If no qualified and suitable women applicants are available for selection against the vacancies reserved for them, those vacancies will be filled by male applicants belonging to the respective communal categories. [\(Section 26\(5\) of the Tamil Nadu Government Servants \(Conditions of Service\) Act, 2016\).](#)
- (G) Wherever vacancies are reserved for Arunthathiyars on preferential basis, even after filling the vacancies reserved for SC (Arunthathiyars) on preferential basis, if more number of qualified Arunthathiyars are available, they shall be entitled to compete with the Scheduled Castes other than Arunthathiyars in the inter-se-merit among them and if any posts reserved for Arunthathiyars remain unfilled for want of adequate number of qualified applicants, it shall be filled by Scheduled Castes other than Arunthathiyars. [\(Section 27 of the Tamil Nadu Government Servants \(Conditions of Service\) Act, 2016\).](#)
- (H) **Evidence for all the claims made in the online application should be uploaded at the time of submission of online application will not be entertained. Failure to upload the documents at the time of submission of online application will entail rejection of application after due process.**
- (I) Suppression of following material information in the online application regarding (i) Employment in the Service of the Indian Union or a State in India or in the employment of Local Bodies or University or Quasi Government Organization or Public Sector units constituted under the authority of the Government of India or of a State in India in regular service or temporary service (ii) Wilful suppression of criminal cases / disciplinary action pending / punishments if any, against the applicant (iii) violation of undertaking given by the applicant in the online application etc., may invite suitable penal action including debarment for a specific period as decided by the Commission for various recruitments/ selections conducted by the Commission, besides rejection of application after due process.

Correct and true information regarding arrest, convictions, criminal or any disciplinary proceedings initiated / pending or finalised, debarment / disqualification by any recruiting agency, if any, should also be furnished to the Commission at the time of submission of online application. The details thereof, i.e. originals of the judgement / order / G.O. dropping further action in the departmental proceedings or any document that may prove the suitability of such applicants for appointment in

such cases must be produced at the stage / time of certificate verification/ oral test as the case may be without fail. All such events that occur after the submission of application and till the date of his / her selection and appointment shall be reported to the Commission forthwith. Failure to report on the part of the applicant will be considered as suppression of material information will attract suitable penal action.

[For further details refer para 12 of the "Instructions to applicants"]

**(J) Incomplete applications and applications containing wrong claims or incorrect particulars relating to category of reservation / eligibility / age /gender / communal category / educational qualification / medium of instruction / physical qualification / other basic qualifications and other basic eligibility criteria will be summarily rejected after due process.**

(K) One Time Registration is not an application for any post / recruitment. Though the details/particulars have already been furnished by the applicants under One Time Registration system, **the claims made in the online application for this recruitment alone will be taken into consideration.** The Commission will not be responsible for any consequences arising out of furnishing of incorrect and incomplete details in the application or omission to provide the required details in the application for this recruitment.

**(L) Determination of Community for Transgender:**

(i) The Transgender candidates, who do not possess any community certificate may choose to be considered under Most Backward Classes as per G.O.(Ms) No.28, Backward Classes, Most Backward Classes and Minorities Welfare Department, dated 06.04.2015 or under 'others'.

(ii) The Transgender candidates who belong to Scheduled Caste/ Scheduled Caste (Arunthathiyar)/ Scheduled Tribe communities and possess community certificate as such, shall be considered as per their respective community.

(iii) The Transgender candidates who belong to the communities other than Scheduled Castes/ Scheduled Castes (Arunthathiyar) / Scheduled Tribe and possess community certificate as such are permitted to choose to be considered as belonging to their own community or as Most Backward Classes whichever is advantageous to them, at the time of One Time Registration itself. Once the individual opts to be considered as a particular community, it shall be crystallized and this option shall not be changed in future.

[Refer G.O.Ms.No.90, Social Welfare and Nutritious Meal Programme [SW8(2)] Department, dated 22.12.2017 and Para. 14 (F) (vi - xi) of "Instructions to Applicants"]

**(M) Reservation in Employment for Transgender:-**

(i) The Transgender candidates who identify themselves as 'Female' shall be considered against both 30% reservation for women as well as 70% reservation for the General category (both Men & Women).

(ii) The Transgender candidates, who identify themselves as 'Male' or 'Transgender', shall be considered against the 70 % reservation for General category (both Men & Women).

- (iii) The above concessions shall be granted subject to production of certificate identifying them as Transgender or Transgender (Male) or Transgender (Female), as the case may be, issued by the Tamil Nadu Transgender Welfare Board (TNTGWB)."

#### 14. OTHER IMPORTANT INSTRUCTIONS:

- a) **Applicants should ensure their eligibility for the examination.** Before applying for / appearing for the examination, the applicants should ensure their eligibility for such examination and that they fulfil all the conditions in regard to age, educational qualifications, number of chances for fee concession, etc., as prescribed by the Commission's notification. Their admission to all stages of the examination will be purely provisional, subject to their satisfying the eligibility conditions. Mere admission to the CBT examination / certificate verification / oral test / counselling or inclusion of name in the selection list will not confer on the candidates any right to appointment. The candidature is therefore, provisional at all stages and the Commission reserves the right to reject candidature at any stage after due process, even after selection has been made, if a wrong claim or violation of rules or instructions is confirmed.

[Refer Para. 11 (B) (C) and (D) of "Instructions to Applicants"]

- b) The memorandum of admission (hall ticket) for eligible applicants will be made available in the Commission's website **www.tnpscexams.in / www.tnpsc.gov.in** for downloading by applicants. The memorandum of admission will **not** be sent by post. The applicants must comply with each and every instruction given in the memorandum of admission.

[Refer Note (g) under Para 2(V) of "Instructions to applicants"]

- c) **ONLINE CORRESPONDENCES** :Applicants requiring clarification, can contact the office of the Tamil Nadu Public Service Commission in person or over the Toll-Free No.1800 419 0958 on all working days between 10.00 am and 5.45 pm. Queries relating to One Time Registration/ online application may be sent to [helpdesk@tnpscexams.in](mailto:helpdesk@tnpscexams.in). Other queries may be sent to [grievance.tnpsc@tn.gov.in](mailto:grievance.tnpsc@tn.gov.in)  
[Refer in Note (h),(i),(j) under Para 2(V) of "Instructions to applicants"]

- d) **COMMUNICATION TO APPLICANTS:** Individual communication regarding the date and time of certificate verification, oral test and counselling (as applicable) will not be sent to the applicants by post. The details will be made available on the Commission's website. Applicants will be informed of the above fact only through SMS and e-mail and they should watch the Commission's website in this regard. Commission is not responsible for non-delivery of SMS/e-mail due to any reasons.

- e) ***During the process of recruitment, from Notification till completion of selection process, NO information / clarification on the selection particulars / details will be furnished to any petitions / representations including petitions received under Right to Information Act, CM cell petitions, and GRC would be furnished.***

f) **MOBILE PHONES AND OTHER ARTICLES BANNED :**

- i) Except the permitted writing material (Black ball point pen), applicants are not allowed to bring cellular phones, electronic or any other type of calculators, watches and rings with inbuilt memory notes, recording devices either as a separate piece or part of something used by the applicant such as watch or ring etc or any other electronic devices and non - electronic devices such as P&G design data book, mathematical and drawing instruments, log tables, stencils of maps, slide rules books, notes, loose sheets, rough sheets, hand bags etc., into the examination hall / room.
- ii) If they are found to be in possession of any such things or instruments, they will not be allowed to proceed with the examination further, besides invalidation of answers and / or debarment. If it is considered necessary, they will be subjected to thorough physical search including frisking on the spot.
- iii) Applicants are advised, in their own interest, not to bring any of the banned items including mobile phones to the venue of the examination, as arrangements for safekeeping of the same cannot be assured. (For further details refer Para 17-E to ["Instructions to Applicants"](#)).

g) Applicants applying for the examination should ensure that they fulfil all the eligibility conditions for admission to the examination. Their admission at all the stages of examination for which they are admitted by the Commission will be purely provisional, subject to their satisfying the prescribed eligibility conditions. **If, on verification at any time before or after the CBT examination /certificate verification / oral test , it is found that they do not fulfil any of the eligibility conditions, their candidature for the recruitment will be summarily rejected after due process.**

h) If any of their claims is found to be incorrect, it will lead to rejection of their candidature after due process and suitable penal action including debarment.

i) **UNFAIR MEANS STRICTLY PROHIBITED:** No applicant shall copy from the answers of any other applicant or permit his / her answers to be copied or give or attempt to give or obtain or attempt to obtain irregular assistance of any description.

j) **CONDUCT IN THE EXAMINATION HALL:** No applicant should misbehave in any manner or create a disorderly scene in the examination hall or harass the staff employed by the Commission for the conduct of the examination. Any such misconduct will be viewed seriously and penalised.

k) For violation of "Instructions to Applicants" in any manner, suitable penalty will be imposed as per [Para 17-E to "Instructions to Applicants"](#) or as deemed fit by the Commission.

(l) a) Tentative answer keys will be hosted in the Commission's website within six working days from the date of conduct of objective type examination. Candidates can challenge the tentative answer keys of the objective type examination through the 'Answer Key Challenge' window available in the Commission's website [Results → Answer Keys].

b) Representations, if any, challenging the tentative answer keys shall be submitted only through online mode **within seven days from the date of publication of tentative answer keys**. Representations received by post or e-mail will receive no attention.

c) Detailed instructions, procedures to challenge the tentative answer keys have been made available in the Commission's website. Representations made online / offline after the closure of the window will also receive no attention.

The challenges submitted on time, through the online mode, shall be referred to a committee comprising of experts in each subject. The decision on the final answer key shall be made, based on the recommendations of the expert committee and answer evaluation shall commence thereafter.

d) The Commission shall not publish the final answer key until the completion of the entire selection process.

e) Requests from candidates for furnishing of their marks or answer copy before the completion of the entire selection process, will not be entertained by the Commission.

f) After conclusion of the entire selection process, complete particulars of all candidates who had applied for recruitment to the post shall be made available on the Commission's website.

[Refer Para 17(D) (iv) to (xii) of "Instructions to Applicants"]

## 15. HOW TO APPLY:

- 1) Applicants should apply only through online mode in the Commission's websites [www.tnpsc.gov.in](http://www.tnpsc.gov.in) or [www.tnpscexams.in](http://www.tnpscexams.in)
- 2) "One Time Registration" by linking Aadhaar is mandatory before applying for any post. Applicant should register only once in the One Time Registration by paying Rs.150/- as registration fee. Successfully registered One Time Registration is valid for five years from the date of registration. All the applications should be submitted using the One Time Registration ID and password registered by the applicant.
- 3) To apply under One Time Registration system, applicants should have a scanned image of their photograph, certificates specified, if any, and signature in CD/DVD/Pen Drive to upload the same, as per the specifications given in the guidelines for scanning and uploading of photograph and signature.

[Refer Para 2 of "Instructions to Applicants"]

- 4) No applicant is permitted to create more than one registration ID under One Time Registration system.
- 5) Applicants should enter the Unique ID and password to view the already available information and update them. They shall not share the ID/ PASSWORD with any other person or agency.
- 6) One Time Registration is not an application for any post. It is just a collection of information from the applicants and provides a separate dashboard to each applicant to facilitate maintenance of their own profile. Applicants who wish to apply for this

recruitment shall click "[Apply](#)" against the recruitment notified in the Commission's website using the same USER ID and PASSWORD given for ONE TIME REGISTRATION.

- 7) Applicants should select the name of the post for which the applicant wishes to apply.
- 8) Online applications uploaded without the photograph, signature and the documents specified in Annexure II will be rejected after due process.
- 9) **Online Application Correction Window:-**

After the last date for submission of online application, the candidates are allowed to edit their online application during the Online Application Correction Window period as mentioned in Para 4 of the Notification (Important Date and Time). After the last date of Correction Window period, no modification is allowed in the online applications. The applications will be processed as per the details finally furnished by the candidates. It is the responsibility of the candidates and the Commission has no liability for subsequent rejection of application caused due to editing the details already submitted in online application. Request / representation addressed to the Commission for modification of claims in the online application, in any mode, will not be entertained. Hence, the applicants are instructed to fill the online application with utmost care and caution.

10) **PRINT OPTION:**

- a) After submitting the application, applicants can save / print their application in PDF format.
- b) On entering user ID and password, applicants can download their application and print, if required.
- c) **Applicants need not send the printout of the online application or any other supporting documents to the Commission.**  
**For further details refer para 2 of "Instructions to Applicants"**

**16. UPLOAD OF DOCUMENTS:**

**I. In respect of recruitment to this post, the applicants shall mandatorily upload the certificates / documents (in support of all the claims made / details furnished in the online application) at the time of submission of online application itself. It shall be ensured that the online application shall not be submitted by the applicants without mandatorily uploading the required certificates.**

**The applicants shall have the option of verifying the uploaded certificates through their OTR. If any of the credentials have wrongly been uploaded or not uploaded or if any modifications are to be done in the uploading of documents, the applicants shall be permitted to upload / re-**

**upload the documents till two days prior to the date of hosting of hall tickets for this post (i.e. twelve days prior to the date of examination (CBT Method))**

**Refer Annexure II for the list of documents to be uploaded by the Applicants. For further details refer para 2W of "Instructions to Applicants"**

**II Intimation to the Candidates:** Individual Communication regarding the Date and Time of Certificate Verification (CV), Oral Test (OT) and Counselling will not be sent to the applicants by Post, the details will be made available in the Commission's website. However, the Commission provides an additional facility to the candidates by informing the above said date and time of Certificate Verification and Oral Test etc., via SMS and e-mail through their registered Mobile Number and email ID. Candidates are directed to watch the Commission's website periodically for all updates and intimations. Commission is not responsible for failure / delay in delivery of SMS / email to the candidates due to any reason including technical issues. Any representation from the candidates for non-receipt of SMS or e-mail will receive no attention.

#### **17. LAST DATE FOR SUBMISSION OF APPLICATION:**

Online application can be edited/ submitted upto **19.10.2023** till 11.59 p.m., after which the link will be disabled. Online application correction window period is from **24.10.2023** 12.01 A.M. to **26.10.2023** 11.59 P.M. The applicants are permitted to upload/ re-upload the documents upto 28.11.2023 till 11.59 P.M, after which the link will be disabled.

*(For detailed information, applicants may refer to the "[Instructions to Applicants](#)" at the Commission's website [www.tnpsc.gov.in](http://www.tnpsc.gov.in)).*

**DISCLAIMER**

“The Government orders relating to Equivalence of qualification are available on the Tamil Nadu Public Service Commission’s website. However, if the applicant possesses an equivalence of qualification other than one mentioned in the Commission’s website and if Government orders to this effect have been issued on or before the date of this notification, applicants should furnish the details of the same while applying and should upload a copy of the Government orders, along with the online application, failing which their application will be rejected after due process. **The Government orders regarding equivalence of qualification issued after the date of this notification will not be considered for this recruitment”.**

**Secretary**

**ANNEXURE - I****ANIMAL HUSBANDRY AND VETERINARY SCIENCE**  
**(UG DEGREE STANDARD)****SUBJECT CODE:396****UNIT-I: GENERAL**

Livestock Population Census in the nation and state, - Role of livestock and their products in the Indian economy and human health, current livestock programs and policies of State and Nation Policy note on Animal Husbandry, Government of Tamil Nadu -Economics of dairy, sheep, goat, poultry, pig and rabbit farming; Livestock project preparation, constraints to the live stock development programs, common offenses against animals - SPCA, Animal Welfare Board of India, NGOs. Livestock marketing and Livestock entrepreneurship.

**UNIT-II: LIVESTOCK PRODUCTION MANAGEMENT**

Common terms used in Animal Husbandry- Dentition and ageing of animals- Livestock and poultry breeds and breed characters, housing systems for different classes of livestock, and requirements of space, ventilation, water, sanitation, and waste disposal. Management of milk, meat, egg, and wool-producing livestock, management of calves and heifers, management of breeding bulls, draught animal power, rearing buffaloes for meat, organic livestock production, small ruminant production systems, economic traits of cattle, sheep and goat. Farm records and their maintenance, strategies for livestock improvement for enhancing productivity. Systems of swine production in India, Exotic and indigenous breeds of pigs, Housing condition requirements for different classes of swine, feeding management for different classes of swine, breeding sow and boar management, piglet management, fattener management. Indian breeds of horses, Equine housing, feeding and breeding management. Importance and significance of laboratory animal production and management, Wild animals in captivity and management.

**UNIT-III: ANIMAL NUTRITION**

Nutritional terms and definitions - Role of nutrition in health and production- Feed and fodder classification, composition, anti-nutritional factors, and toxins- Requirements of nutrients for different categories of livestock/poultry and formulation of least cost rations-Feeding of pet animals-BIS specifications for livestock and poultry feeds-Nutritional deficiency and its influence on livestock performance -Feed supplements and additives-Conservation and preservation of feed and fodders - Economic utilization of agro-industrial by-products for feeding livestock - Utilization of unconventional feeds - Feeding of captive wild animals and birds-Quality control of feed-Feed milling technology-Feedblock/baling- By-Pass Proteins and by-pass Fat - Feeding livestock during scarcity - Metabolic disorders in Livestock and Poultry Processing of feed and forage to improve nutritive value-Use of NPN compounds for ruminants.

## **UNIT-IV: LIVESTOCK BREEDING AND GENETICS**

Important breeds of cattle, buffalo, sheep, goat, pig, and poultry with special reference to economic characters-Principles of Genetics, Cytogenetics, and Basis of Population Genetics, Genetic parameters- Nature of DNA and RNA, their models and functions –Selection of livestock for production, reproduction, and disease resistance traits–Response to selection - Mating systems including Nucleus Breeding Schemes - Current livestock and poultry breeding policies and programs in the state and country-Applications of Recombinant DNA technology, Cloning, Transgenesis, and Marker-Assisted Selection - Conservation of Animal Genetic Resources.

## **UNIT-V: VETERINARY ANATOMY, PHYSIOLOGY, AND BIOCHEMISTRY**

Gross study of bones of Ox and differences in Horse, Dog, Pig and Fowl, Joints and Muscles of Skeleton of Ox, Gross study of Heart and Conduction system, General plan of Pulmonary and systemic circulation, Gross anatomy of Brain and Spinal cord, the Gross study of organs of the digestive, respiratory, urinary and reproductive system of Ox, Horse, Dog, Pig and Fowl, Systemic histology.

Mechanism of respiration. General functions of blood (blood cells, plasma & serum) coagulation, cardiac cycle, Blood circulation, Blood pressure, renal function Hormonal control of Lactogenesis. Environmental factors affecting animal production–Environmental stress on animal performance–Green Houses Gases – Role of ruminants. Endocrine System-Functional aspects of hormones in Systemic Physiology. Renal system-Counter Current Mechanism-Acid Base Balance.

Enzymes: Definition and classification. Clinical Enzymology - Diagnostic importance of non-functional plasma enzymes and Isoenzymes; Carbohydrate metabolism and its disorders: Glycolysis, Krebs cycle, Carbohydrate fermentation pathway. Disorders – Diabetes mellitus, Bovine Ketosis, Pregnancy toxemia, Lactic acidosis and Bloat in ruminants; Lipid metabolism and its disorders: Beta oxidation of fatty acids, ketone body formation, Disorders- Bovine Ketosis, Pregnancy toxemia; Lipid Profile in disease diagnosis; Protein metabolism and its disorders: Urea cycle and Urea poisoning in ruminants. Utilization of NPN compounds by ruminants; Organ Function tests: Liver function and Renal function tests-Biochemical tests for differential diagnosis.

## **UNIT – VI: VETERINARY MICROBIOLOGY, PUBLIC HEALTH, AND PREVENTIVE MEDICINE**

General and Systematic Veterinary Bacteriology – Bacterial Diseases of Veterinary Importance in relation to Isolation, Culture, Morphology, Biochemical and Antigenic Characteristics, Pathogenesis, Diagnosis, and control. Veterinary Mycology–Important Pathogenic Fungi in relation to Isolation, Culture, Morphology, Biochemical and Antigenic Characteristics, Pathogenesis, Diagnosis, Prevention, and Control. General and Systematic

Veterinary Virology – Structure, Viral Replication, Viral Pathogenesis, Viral Interaction, and Oncogenesis – Important Veterinary Viral Diseases – RNA and DNA Viruses, Cultivation, Pathogenesis, Clinical Sciences, and Diagnosis. Veterinary Immunology – Antigen – Types of Immunity, Antigen and Antibody, Concepts of Immunity and Microbes, Vaccine and other Biologicals –Antigen and Antibody-based Diagnostic Test and Microbial Biotechnology.

Epidemiology–definitions, terms, triad, concept, scope, objectives, and uses. Monitoring and surveillance, epidemiological disciplines, methods, mode and route of disease transmission, rates, ratios, the occurrence of disease, properties of diagnostic tests, the gradient of infection, and pattern of diseases. Epidemiology, treatment, prevention, and control of common bacterial, viral, fungal, rickettsial, protozoan, ectoparasitic and endoparasitic diseases of livestock, poultry, companion animals, and wildlife species, regional - emerging and re-emerging important diseases. Allergic skin tests, modern diagnostic techniques, and vaccination protocol for infectious diseases.

Role of Veterinarians in public health, one health concept- Milk Hygiene, Meat Hygiene - Foodborne diseases and Food Safety, Zoonoses - Classification, Zoonotic diseases of bacterial, viral, fungal, parasitic and rickettsial origin-Prevention and control of Zoonotic Diseases - Emerging and Re-Emerging Zoonoses -Biodiversity -Environmental contaminants in the food chain - Air, water, Thermal, radiation and land pollution - water purification, Chlorination - Sanitation and disinfection of farm and hospital -Management of waste from animal industries - Role of Pollution Control Board in India - Disaster Management – Vector control and reservoir control.

## **UNIT-VII: PATHOLOGY, PARASITOLOGY, AND PHARMACOLOGY**

General concepts and etiology of diseases in animals; Common pathological conditions seen in domestic, wild, zoo, and laboratory animals and birds. Veterinary clinical pathology methods (with special reference to hematology, urinalysis, biopsy, and cytology) as rapid diagnostic methods. General oncology and pathology of various types of tumors in domestic animals. General principles and procedures of necropsy; Collection, preservation, and dispatch of morbid materials for laboratory diagnosis; Vetero-legal necropsy procedures.

Classification of Parasites–Parasite and parasitism in animals; important morphological features, life-cycles, mode of transmission, pathogenesis, diagnosis, chemotherapy, prophylaxis, and general control measures of parasites associated with disease in animals, birds, captive and free range wild animals.

Drug action–Pharmacokinetics (absorption, distribution, metabolism, and excretion), Pharmacodynamics – (types and structure of receptors. Dose-response curve)-Anaesthetics(local and general), analgesics, sedatives – drugs for euthanasia of animals – Chemotherapy (general principles including resistance, antibacterials, anthelmintics,

antiprotozoals) – Toxicology (toxicity of pesticides, herbs, venoms, and toxins) –pharmacy (pharmaceutical calculations, prescription writing)– useful herbal preparations.

### **UNIT-VIII: EXTENSION EDUCATION**

Farming and types of farming in India. Early extension efforts in India. Extension Education – Principles, philosophy, objectives, dimensions. Extension Educational Process. Teaching and learning process. Rural development programs. Panchayati Raj. Sociology and Rural sociology in animal husbandry extension–culture, tribal, rural and urban communities, social control, social stratification, social institutions, social change, leadership. Adoption and diffusion of innovations – innovation-decision process, attributes of innovations, adopter categories, factors affecting adoption and diffusion process, and the role of change agents. Extension program planning and evaluation. Livestock and poultry development programs in India. TOT Projects of ICAR. Communication – Process, elements, theories, and methods. ICT and their application in the livestock sector. Gender and animal husbandry. Sustainable livestock production.

### **UNIT-IX: VETERINARY CLINICAL MEDICINE, VETERINARY GYNAECOLOGY AND OBSTETRICS AND VETERINARY SURGERY AND RADIOLOGY**

General and special clinical examination - General systemic state - etiology, clinical signs, pathogenesis, diagnosis and differential diagnosis, treatment and management of diseases of the digestive system, cardiovascular, respiratory, urinary, nervous, musculoskeletal, hemopoietic, Mammary gland, skin and sense organs – zoo and wild animal diseases-etiology, clinical signs, pathogenesis, diagnosis, prevention and control of metabolic, deficiency diseases – Ethics and jurisprudence and animal welfare in domestic and wild animals.

Female reproductive physiology, Puberty and sexual maturity, Aberrations of estrus and their clinical management, Problems in estrus detection and estrus detection aids, Follicular dynamics, Ovulation and its aberrations, Fertilization, Embryonic mortality, Anoestrus and repeat breeding syndrome, Diagnostic procedures in infertility investigation in female animals, Clinical uses of hormones and drugs in the management of infertility, Assisted reproductive techniques – Synchronization of estrus and ovulation, Multiple ovulation and embryo transfer technology in livestock and zoo animals, *In vitro* fertilization, Maternal recognition of pregnancy, Pregnancy diagnosis and factors affecting gestation length, Implantation, Placentation and its classification, Abortion, Accidents of gestation, Pre, peri and postpartum complications, Parturition and its stages, Dystocia and obstetrical interventions, Obstetrical anesthesia, Male sexual behaviour and libido, semen collection techniques, semen evaluation, semen extenders and cryopreservation, Artificial insemination techniques in farm and pet animals, Forms of male infertility, Breeding soundness evaluation of bull, Medical and surgical procedures for population control of their production.

Reproductive physiology; hormones and reproduction; Accidents of gestation, livestock fertility and infertility; artificial insemination; semen characteristics of different species of livestock and cryopreservation. Multiple ovulation and embryo transfer technology in livestock and zoo animals Reproductive disorders and their management.

General surgical principles – pre-and post-operative considerations, anesthesia, asepsis and anti-sepsis and sterilization; scope, history and development of veterinary radiology; Imaging pathology of different parts of body-surgical emergencies–Intensive care– Physiotherapy – Diathermy. Aural Hematoma in dogs-Small Animal GI tract surgical affections-Esophageal foreign Body – GDV – Intussusception – Foreign body syndrome – Megacolon – Ophthalmic affections in small animals – Amputation of tail-Large Animal GI tract affections – Choke - Rumenotomy - Abomasal Affections - Cecal Dilation and Torsion- Atresia Ani-Urogenital affections in small and large animals – Cystotomy – Urethrotomy - Perineal Urethrostomy -Tube Cystotomy. Orthopaedic Examination of Small Animals-Principles of Internal Fixation – Osteoarthritis and Hip Dysplasia-Patellar luxation in small animals. Conformation of Horses-Lameness examination in large animals-Hoof affections on horses and cattle-musculoskeletal diseases.

### **UNIT-X: LIVESTOCK PRODUCTS TECHNOLOGY**

Layout and management of rural, urban, and modern abattoirs. HACCP concepts in abattoir management. Animal welfare and pre-slaughter care of meat animals. Significance of Meat Inspection in Wholesome Meat Production Procedures of antemortem and post-mortem examination of meat animals. Slaughtering and dressing of meat animals and birds. Importance of evaluation of meat animals and grading their carcasses. Utilization of abattoir by products, rendering, and treatment of condemned meat and carcasses. Management of effluent emanating from abattoir. The prospect of the meat industry in India. Structure and composition of muscle. Conversion of muscle to meat. Nutritive value of meat. Fraudulent substitution of meat. Preservation of meat and poultry; drying, salting, curing, smoking, chilling, freezing, canning, irradiation, and chemicals. Aging of meat. Modern processing technologies of meat and meat products. Concept of value addition – Importance of value addition in the meat industry. Physico-chemical and microbiological quality of meat and its products. Nutritive value of egg. FSSAI, Codex Alimentarius Commission rules, and regulations pertaining to meat.

Retrospect and prospects of milk industry in India - Layout of milk processing plant and its management - Composition and nutritive value of milk - factors affecting milk composition. Physico-chemical properties of milk. Collection, chilling, standardization, pasteurization, UHT treatment, homogenization, and bacto-fugation. Preparation of cream, butter, ghee, channa, paneer, khoa, ice cream, dahi, lassi, mozzarella cheese, and dairy by-products - Dried, dehydrated and fermented milk - Introduction to

functional milk products -Organic milk products. Common defects of milk products and their remedial measures –Microbiological deterioration of milk and milk products--Packaging, transportation, storage and distribution of milk and milk products-Good manufacturing practices and implementation of HACCP in milk plant-Food safety standards for milk and milk products-Cleaning and sanitation in milk plant - Dairy effluent management - Sampling of milk -Platform tests- Estimation of fat, solid not fat (SNF) and total solids - Cream separation –Detection of adulteration of milk-Determination of efficiency of pasteurization.

**ANIMAL HUSBANDRY AND VETERINARY SCIENCE****(PG DEGREE STANDARD)****SUBJECT CODE:397****UNIT-I:GENERAL:**

Role livestock management - food security-Livestock Population Census in the nation and state -Policy note on Animal Husbandry, Government of Tamil Nadu-Current Livestock Development programs and policies of State and Nation-Legislation for control of animal diseases - Legal duties of Veterinarian - Common offences against animals and laws governing import and export of animals - Certification of products- Drugs and cosmetic Act1940, Good Manufacturing practices of veterinary biologicals, Basic knowledge on Institutional Bio safety Committee (IBSC), Committee for the control and supervision of experimentation on animals (CCSEA) and Animal Welfare Board (AWB).Contribution of Livestock sector to National and State Economy. WTO, TRIPS, IPR and their impact on livestock sector. Export and import of livestock and livestock products.

**UNIT-II: ANIMAL BREEDING AND GENETICS, ANIMAL NUTRITION AND LIVESTOCK PRODUCTION MANAGEMENT****Animal Breeding and Genetics**

Important breeds of cattle, buffalo, sheep, goat, pig and poultry with special reference to economic characters- Principles of Genetics and Cytogenetics- Basis of Population Genetics – Hardy-Weinberg Law, Effects of selection, migration, mutation, genetic drift and in breeding on gene and genotype frequencies, Effective Population Size, Genetic parameters-Animal Breeding: Aids to selection, methods of selection and culling, Sire Evaluation & Breeding value estimation, Field Progeny Testing, Response to selection. Methods of breeding –In breeding and out breeding–Nucleus Breeding Systems, Synthetic breed formation, selection for combining ability in poultry - Molecular techniques and their applications in Animal Breeding including DNA chips and selection of High Genetic Merit breeding stock –Current live stock and poultry breeding policies and programmes in the state and country-Wild animal breeding in captivity. Pet animals and birds–breeds and breeding-Laboratory Animal Breeding-Conservation of Animal Genetic Resources.

**Animal Nutrition**

Nutritional terms and definitions-Proximate composition and fibre fractions of feeds- Digestion and metabolism of nutrients in ruminants and non-ruminants. Importance of minerals and Vitamins in ruminants & non ruminants –Classification of feeds and fodders, antinutritional factors-Storage and conservation of feeds and fodders–Formulation of rations and feeding of Livestock, Poultry, Laboratory and pet animals –Utilisation of unconventional

feeds, Industrial and animal by-products-Wildlife nutrition. Use of feed additives. Feed milling technology-Laws and regulations of feed manufacturing industry, Codex alimentarius, HACCP. Therapeutic diets for pet animals-Feeding of animals during disaster-Hydroponic fodder -nano nutrients in animal production.

### **Livestock Production Management**

Common terms used in Animal Husbandry - Identification, Dentition and Age of animals – Watering livestock - Removal and disposal of manure and other animal waste –Disposal of carcasses and bio medical waste - Effect of environment on the health and productivity of livestock and measures to counteract it - Different systems of housing, enriched housing models, environmental controlled housing for livestock, Housing considerations for various classes of livestock with special reference to laboratory animals-Scientific techniques and regime of feeding and watering different categories of livestock-Traits of economic importance and their inter-relationships-labour management-clean milk production-management strategies different classes of livestock- Indices to assess their productive efficiency- Milk parlour systems- laws and practices governing dairy sector in India- Draught animal power- Climatology and livestock production- THSI index- effect of photo period on livestock productivity-Livestock and global warming-Behaviour and Animal Welfare-Significance of laboratory animal production and management-Management of companion animals and its management strategies-Economic importance of integrated farming system- Hatchery management-Different systems of poultry management - sexing and brooding of chicks - Common symptoms of diseases and control measures-Farm record maintenance.

## **UNIT-III: LIVESTOCK PRODUCTS TECHNOLOGY (DAIRY SCIENCE AND MEAT SCIENCE)**

### **Livestock Products Technology (Dairy Science)**

Retrospect and prospects of milk industry in India - Layout of milk processing plant and its management - Composition and nutritive value of milk - factors affecting milk composition. Physico-chemical properties of milk. Collection, chilling, standardization, pasteurization, UHT treatment, homogenization, and bactofugation. Preparation of cream, butter, ghee, channa, paneer, khoa, ice cream, dahi, lassi, mozzarella cheese, and dairy by-products - Dried, dehydrated and fermented milk - Introduction to functional milk products –Organic milk products. Common defects of milk products and their remedial measures-Microbiological deterioration of milk and milk products--Packaging, transportation, storage and distribution of milk and milk products-Good manufacturing practices and implementation of HACCP in milk plant-Food safety standards for milk and milk products-Cleaning and sanitation in milk plant - Dairy effluent management -

Sampling of milk -Platform tests- Estimation of fat, solid not fat (SNF) and total solids - Cream separation -Detection of adulteration of milk- Determination of efficiency of pasteurization. Role of milk and milk products in human nutrition, Detection of adulterants in milk. Food safety Norms FSSAI.

### **Livestock Products Technology (Meat Science)**

Layout and management of rural, urban, and modern abattoirs. HACCP concepts in abattoir management. Animal welfare and pre-slaughter care of meat animals. Significance of Meat Inspection in Wholesome Meat Production Procedures of antemortem and post-mortem examination of meat animals. Slaughtering and dressing of meat animals and birds. Importance of evaluation of meat animals and grading their carcasses. Utilization of abattoir by products, rendering, and treatment of condemned meat and carcasses. Management of effluent emanating from abattoir. The prospect of the meat industry in India. Structure and composition of muscle. Conversion of muscle to meat. Nutritive value of meat. Fraudulent substitution of meat. Preservation of meat and poultry; drying, salting, curing, smoking, chilling, freezing, canning, irradiation, and chemicals. Aging of meat. Modern processing technologies of meat and meat products. Concept of value addition - Importance of value addition in the meat industry. Physico-chemical and microbiological quality of meat and its products. Nutritive value of egg. FSSAI, Codex Alimentarius Commission rules, and regulations pertaining to meat.

### **UNIT-IV: ANIMAL HUSBANDRY EXTENSION AND ECONOMICS**

Principles of extension education - Extension teaching methods, Audio visual aids -Characteristics of rural & urban societies. Diffusion of innovations, Innovation decision process, Adopter categories and factors influencing adoption of technologies, Panchayat Raj. Selection and training of leaders. Extension programme planning and evaluation. Principles and elements of animal husbandry extension management. Human resource management in the animal husbandry sector. ICT initiatives in Livestock Sector, State and Central Governmental Schemes - Role of animals in the economy of livestock owners. Statistics of animal and poultry - National and State wise. Milk and sheep co-operatives - Marketing of livestock and its products. Preparation of feasibility reports and projects (Economics of a dairy unit, poultry, piggery, sheep & goat units). Per capita availability and consumption of milk, meat and egg. Impact of AH programs in the state. Livestock entrepreneurship, avenues and job opportunities.

## **UNIT-V:VETERINARYANATOMY AND PHYSIOLOGY**

### **Veterinary Anatomy**

Gross study of bones of Ox and differences in Horse, Dog, Pig and Fowl, Palpable bony prominences of body of domestic animals, joints and muscles of skeleton of Ox. Gross study of heart and its conduction system, General plan of Pulmonary and systemic circulation, Palpable lymphnodes and arteries of the body of domestic animals. Surface veins for Venepuncture, Gross anatomy of Brain and Spinal cord, Gross study of organs of digestive, respiratory, urinary and reproductive system of Ox, Horse, Dog, Pig and Fowl, Systemic histology.

### **Veterinary Physiology**

Digestion, metabolism and absorption of carbohydrates, proteins and fats in simple stomach animals and ruminants-mechanism of respiration. General functions of blood (blood cells, plasma & serum) coagulation, blood groups in animals, cardiac cycle, Blood circulation, Blood pressure, renal function. Hormonal control of Lactogenesis. Endocrine control of Physiological system and application of hormones on Production-Renal System-Significance of Avian Excretory System-Physiological Significance of Avian Respiration-Stress Physiology-Mode of Stress management by body-Immune responses and Immune Physiology.

## **UNIT-VI:SURGERY & RADIOLOGY**

General surgical principles - Asepsis and Antisepsis - sutures and suturing methods -Pre medication and Anaesthesia (Local Regional and General) in small and large animals-Anesthetic Monitoring-Anesthetic Emergencies and management-Anesthesia of wild and captive animals. Aural Hematoma in dogs - Small Animal GI tract surgical affections-Esophageal foreign Body-GDV-Intussusception-Foreign body syndrome-Megacolon-Ophthalmic affections in small animals-Amputation of tail-Large Animal GI tract affections - Choke-Rumenotomy - Abomasal Affections-Cecal Dilation and Torsion - Atresia Ani-Urogenital affections in small and large animals - Cystotomy-Urethrotomy-Pernieal Urethrostomy-Tube Cystotomy. Orthopaedic Examination of Small Animals-Principles of Internal Fixation-including pinning, plating and external skeletal fixators. Fracture and its complications-Osteoarthritis and Hip Dysplasia-Patellar luxation in small animals- Spinal cord affections and its surgical management. Conformation of Horses-Lameness examination in large animals-Hoof affections on horses and cattle-musculoskeletal diseases-Principles of fracture fixation in large animals. Common surgical affections and operative procedures (Wound, Fracture, and dislocation) - cosmetic surgical operations - Imaging techniques Principles of radiographic interpretation- Ultrasound diagnostic imaging - CT Scan and MRI techniques. Pre-operative and post-operative care of animals-Intensive care-Physiotherapy-Diathermy-Surgical Emergencies.

## **UNIT-VII:GYNAECOLOGY AND OBSTETRICS**

Role of hormones in various phases of reproduction in female & male  
 - Symptoms of estrus and estrous cycle-Embryo Transfer Technology-  
 Fertility and infertility in female & male, diagnosis and treatment-  
 Pregnancy diagnosis – Diseases and accidents during gestation, Abortion-  
 Causes and treatment, Stage of parturition in domestic animals-Types of  
 dystocia, handling, diagnosis and treatment, post-partum diseases, and  
 complications –Collection and evaluation and preservation of semen-  
 Handling of frozen semen- Techniques of AI-Breeding soundness  
 examination of bulls – Castration in different species. In-vitro fertilization-  
 Transgenic animal production – Sexing of gametes and embryos-Herd  
 health improvement program.

## **UNIT-VIII:VETERINARY MICROBIOLOGY AND PREVENTIVE MEDICINE**

### **Veterinary Microbiology**

General Microbiology-Microscopy-Bacterial growth, Nutrition, metabolism-  
 Bacterial Genetics - Determinants and pathogenicity markers -  
 bacteriophages – antimicrobial agents-resistance and susceptibility.  
 Morphological structure of virus-classification of virus Replication of DNA &  
 RNA viruses – Viral Interactions, pathogenesis, persistence, oncogenic virus-  
 Immune response to viral infections. Systematic veterinary Bacteriology and  
 Virology Bacterial and Viral diseases of veterinary importance - etiology,  
 antigenic and structural components, pathogenesis, Diagnosis, and control-  
 Prions, emerging & trans boundary diseases. Veterinary immunology -  
 Poultry & livestock immune system - types of immunity-Organs and cells of  
 Immune system - Antigens and its characteristics - Immunoglobulins -MHC-  
 Hypersensitivity-Antigen-antibody Interaction-Immunological diseases-  
 Veterinary Vaccine, Quality control recent advances in Vaccine delivery-  
 Adjuvants – Vaccine failure. Veterinary Mycology, morphology, cultural  
 characters - virulence factors – Antigenic components-pathogenesis-  
 Diagnosis and control of fungal infection-Systematic study & animal  
 mycoses.

### **Veterinary Preventive Medicine**

Epidemiology–definitions, terms, triad, concept, scope, objectives, and  
 uses. Monitoring and surveillance, epidemiological disciplines - investigations,  
 methods, mode and route of disease transmission, observational studies,  
 rates, ratios, occurrence of disease, properties of diagnostic tests, gradient of  
 infection, pattern of diseases, survey, Data collection and ecosystem.  
 Epidemiology, aetiology, pathogenesis, clinical manifestations, diagnosis,  
 differential diagnosis, treatment, prevention and control of common bacterial,  
 viral, fungal, rickettsial, protozoan and parasitic diseases (ecto and endo) of  
 livestock, poultry, companion animals and wild life species, regional -  
 emerging and re- emerging important diseases, notifiable diseases, Allergic

skin tests – Intradermal tests, and recent serology and molecular diagnostic techniques – disease outbreak investigations and vaccines-quality control-vaccination protocol for infectious diseases of livestock, poultry and pet animals – World Organisation for Animal Health

## **UNIT-IX:VETERINARY PATHOLOGY AND PARASITOLOGY**

### **Veterinary Pathology**

General Pathology: Causes of diseases - Neoplasm - Disturbances of cell metabolism and growth. Systemic Pathology: Cardio vascular, respiratory, digestive, genital, nervous and skin. Pathology of important diseases caused by bacteria, virus, fungi, helminths and protozoa in livestock and poultry. Clinical Pathology: Examination of clinical materials, postmortem techniques, *vetro* – Legal implications - Collection and despatch of materials. Preservation of specimens.

### **Veterinary Parasitology**

Classification of parasites - General life cycle, mode of transmission, pathogenesis, diagnosis and control of Trematodes, Cestodes, Nematodes, arthropods and Protozoa in animals and birds. Use and abuse of antiparasitic drug, anti-parasitic drug resistance, Parasites of zoonotic importance -Anti-parasitic vaccines.

## **UNIT-X: VETERINARY CLINICAL MEDICINE AND VETERINARY PHARMACOLOGY & TOXICOLOGY**

### **Veterinary Clinical Medicine**

General - Special and systemic clinical examinations - Clinical diagnostic techniques -Diseases of digestive system, cardiovascular, respiratory, urinary, nervous, musculoskeletal, hemopoietic, mammary gland ,skin and sense organs - Etiology, clinical signs, pathogenesis, diagnosis, treatment, prevention and control of metabolic diseases and deficiency diseases (Minerals and vitamins)- Diseases of toxicants-Fluid therapy including blood transfusion-emergency and critical care medicine-Ethics and jurisprudence in domestic and wild animals-Interpretation of laboratory results.

### **Veterinary Pharmacology and Toxicology**

Drug action-Pharmacokinetics (absorption, distribution, biotransformation and excretion), Pharmacodynamics-Local and general anaesthetics- Antibiotics and chemotherapy-Toxicology, Ethno veterinary medicine. Pharmacy-Preparation of ointments liniments and injectable-Dispensing of pharmaceutical preparations. Pharmacokinetics (absorption, distribution, biotransformation, excretion) – Pharmacodynamics (structure and function of receptors, dose-response curve) – Anaesthetics (local and general), sedatives, analgesics-chemotherapy (general principles including

resistance, antibacterials, anthelmintics, antiprotozoal) – Toxicology (General principles of treatment of poisoning, antidotes, toxicity of pesticides, herbs, venoms, and toxins) – herbal drugs in veterinary practice–Pharmacy (calculations, prescription writing, drug approval process)

**Paper-II**  
**SYLLABUS FOR EXAMINATION (CBT Method)**

**PART - A**

**TAMIL ELIGIBILITY TEST (SSLC STANDARD)**

**கட்டாய தமிழ்மொழி தகுதித் தேர்விற்கான பாடத்திட்டம்**

**(கொள் குறி வினாவிற்கான தலைப்புகள்)**

**பத்தாம் வகுப்பு தரம்**

1. பிரித்தெழுதுதல் / சேர்த்தெழுதுதல்.
2. எதிர்ச்சொல்லை எடுத்தெழுதுதல்.
3. பொருந்தாச் சொல்லைக் கண்டறிதல்.
4. பிழை திருத்தம் (i) சந்திப்பிழையை நீக்குதல் (ii) மரபுப் பிழைகள், வழுவச் சொற்களை நீக்குதல் / பிறமொழிச் சொற்களை நீக்குதல்.
5. ஆங்கிலச் சொல்லுக்கு நேரான தமிழ்ச் சொல்லை அறிதல்.
6. ஒலி மற்றும் பொருள் வேறுபாடறிந்து சரியான பொருளையறிதல்.
7. ஒரு பொருள் தரும் பல சொற்கள்.
8. வேர்ச்சொல்லைத் தேர்வு செய்தல்.
9. வேர்ச்சொல்லைக் கொடுத்து / வினைமுற்று, வினையெச்சம், வினையாலணையும் பெயர், தொழிற்பெயரை, உருவாக்கல்.
10. அகர வரிசைப்படி சொற்களை சீர் செய்தல்.
11. சொற்களை ஒழுங்குப்படுத்தி சொற்றொடராக்குதல்.
12. இரு வினைகளின் பொருள் வேறுபாடு அறிதல்.  
(எ.கா.) குவிந்து - குவித்து
13. விடைக்கேற்ற வினாவைத் தேர்ந்தெடுத்தல்.
14. எவ்வகை வாக்கியம் என க்கண்டெழுதுதல் - தன்வினை, பிறவினை, செய்வினை, செய்ப்பாட்டு வினை வாக்கியங்களைக் கண்டெழுதுதல்.
15. உவமையால் விளக்கப்பெறும் பொருத்தமான பொருளைத் தேர்ந்தெழுதுதல்
16. அலுவல்சார்ந்தசொற்கள் (கலைச்சொல்)
17. விடைவகைகள்.
18. பிறமொழிச் சொற்களுக்கு இணையான தமிழ்ச் சொற்களைக் கண்டறிதல்  
(எ.கா.) கோல்டுபிஸ்கட் - தங்கக்கட்டி.
19. ஊர்ப் பெயர்களின் மருஉவை எழுதுக (எ.கா.) தஞ்சாவூர் - தஞ்சை
20. நிறுத்தற் குறிகளை அறிதல்.

21. பேச்சு வழக்கு, எழுத்து வழக்கு (வாரான் - வருகிறான்).
22. சொற்களை இணைத்து புதிய சொல் உருவாக்கல்.
23. பொருத்தமான காலம் அமைத்தல்  
(இறந்தகாலம், நிகழ்காலம், எதிர்காலம்).
24. சரியான வினாச் சொல்லைத் தேர்ந்தெடு.
25. சரியான இணைப்புச் சொல்  
(எனவே, ஏனெனில், ஆகையால், அதனால், அதுபோல).
26. அடைப்புக்குள் உள்ள சொல்லைத் தகுந்த இடத்தில் சேர்க்க.
27. இருபொருள் தருக.
28. குறில் - நெடில் மாற்றம், பொருள் வேறுபாடு.
29. கூற்று, காரணம் - சரியா? தவறா?
30. கலைச்சொற்களை அறிதல் :-  
எ.கா. - Artificial Intelligence - செயற்கை நுண்ணறிவு  
Super Computer - மீத்திறன் கணினி
31. பொருத்தமான பொருளைத் தெரிவு செய்தல்
32. சொற்களின் கூட்டுப் பெயர்கள் (எ.கா.) புல் - புற்கள்
33. சரியான தொடரைத் தேர்ந்தெடுத்தல்
34. பிழை திருத்துதல் (ஒரு-ஓர்)
35. சொல் - பொருள் - பொருத்துக
36. ஒருமை - பன்மை பிழை
37. பத்தியிலிருந்து வினாவிற்கான சரியான விடையைத் தேர்ந்தெடு.

**Paper-II****PART - B****GENERAL STUDIES (DEGREE STANDARD)****CODE NO.003****UNIT-I: GENERAL SCIENCE**

- (i) Scientific Knowledge and Scientific Temper - Power of Reasoning - Rote Learning vs Conceptual Learning - Science as a tool to understand the past, present and future.
- (ii) Nature of Universe - General Scientific Laws – Mechanics - Properties of Matter, Force, Motion and Energy - Everyday application of the Basic Principles of Mechanics, Electricity and Magnetism, Light, Sound, Heat, Nuclear Physics, Laser, Electronics and Communications.
- (iii) Elements and Compounds, Acids, Bases, Salts, Petroleum Products, Fertilisers, Pesticides.
- (iv) Main concepts of Life Science, Classification of Living Organisms, Evolution, Genetics, Physiology, Nutrition, Health and Hygiene, Human Diseases.
- (v) Environment and Ecology.

**UNIT-II: CURRENT EVENTS**

- (i) History - Latest diary of events - National symbols - Profile of States - Eminent personalities and places in news – Sports-Books and authors.
- (ii) Polity – Political parties and political system in India-Public awareness and General administration- Welfare oriented Government schemes and their utility, Problems in Public Delivery Systems.
- (iii) Geography-Geographical landmarks.
- (iv) Economics-Current socio-economic issues.
- (v) Science-Latest inventions in Science and Technology.
- (vi) Prominent Personalities in various spheres – Arts, Science, Literature and Philosophy.

**UNIT-III: GEOGRAPHY OF INDIA**

- (i) Location – Physical features - Monsoon, Rainfall, Weather and Climate - Water Resources - Rivers in India - Soil, Minerals and Natural Resources - Forest and Wildlife - Agricultural pattern.
- (ii) Transport -Communication.
- (iii) Social Geography – Population density and distribution- Racial, Linguistic Groups and Major Tribes.
- (iv) Natural calamity – Disaster Management – Environmental pollution: Reasons and preventive measures – Climate change – Green energy.

**UNIT-IV: HISTORY AND CULTURE OF INDIA**

- (i) Indus Valley Civilization - Guptas, Delhi Sultans, Mughals and Marathas - Age of Vijayanagaram and Bahmani Kingdoms - South Indian History.
- (ii) Change and Continuity in the Socio - Cultural History of India.
- (iii) Characteristics of Indian Culture, Unity in Diversity –Race, Language, Custom.
- (iv) India as a Secular State, Social Harmony.

**UNIT-V: INDIAN POLITY**

- (i) Constitution of India - Preamble to the Constitution- Salient features of the Constitution- Union, State and Union Territory.
- (ii) Citizenship, Fundamental Rights, Fundamental Duties, Directive Principles of State Policy.
- (iii) Union Executive, Union Legislature – State Executive, State Legislature – Local Governments, Panchayat Raj.
- (iv) Spirit of Federalism: Centre-State Relationships.
- (v) Election - Judiciary in India – Rule of Law.
- (vi) Corruption in Public Life – Anti-corruption measures – Lokpal and Lok Ayukta - Right to Information- Empowerment of Women-Consumer Protection Forums, Human Rights Charter.

### **UNIT-VI: INDIAN ECONOMY**

- (i) Nature of Indian Economy – Five year plan models - an assessment – Planning Commission and Niti Ayog.
- (ii) Sources of revenue – Reserve Bank of India – Fiscal Policy and Monetary Policy - Finance Commission – Resource sharing between Union and State Governments - Goods and Services Tax.
- (iii) Structure of Indian Economy and Employment Generation, Land Reforms and Agriculture - Application of Science and Technology in Agriculture - Industrial growth - Rural Welfare Oriented Programmes – Social Problems – Population, Education, Health, Employment, Poverty.

### **UNIT-VII: INDIAN NATIONAL MOVEMENT**

- (i) National Renaissance –Early uprising against British rule - Indian National Congress - Emergence of leaders –B.R.Ambedkar, Bhagat Singh, Bharathiar, V.O. Chidambaranar Jawaharlal Nehru, Kamarajar, Mahatma Gandhi, Maulana Abul Kalam Azad, Thanthai Periyar, Rajaji, Subash Chandra Bose, Rabindranath Tagore and others.
- (ii) Different modes of Agitation: Growth of Satyagraha and Militant Movements.
- (iii) Communalism and Partition.

### **UNIT-VIII: History, Culture, Heritage and Socio-Political Movements in Tamil Nadu**

- (i) History of Tamil Society, related Archaeological discoveries, Tamil Literature from Sangam Age till contemporary times.
- (ii) Thirukkural :
  - (a) Significance as a Secular Literature
  - (b) Relevance to Everyday Life
  - (c) Impact of Thirukkural on Humanity
  - (d) Thirukkural and Universal Values - Equality, Humanism, etc
  - (e) Relevance to Socio-Politico-Economic affairs
  - (f) Philosophical content in Thirukkural
- (iii) Role of Tamil Nadu in freedom struggle - Early agitations against British Rule - Role of women in freedom struggle.
- (iv) Evolution of 19<sup>th</sup> and 20<sup>th</sup> Century Socio - Political Movements in Tamil Nadu - Justice Party, Growth of Rationalism - Self Respect Movement, Dravidian Movement and Principles underlying both these Movements, Contributions of Thanthai Periyar and Perarignar Anna.

**UNIT-IX: Development Administration in Tamil Nadu**

- (i) Human Development Indicators in Tamil Nadu and a comparative assessment across the Country – Impact of Social Reform Movements in the Socio - Economic Development of Tamil Nadu.
- (ii) Political parties and Welfare schemes for various sections of people – Rationale behind Reservation Policy and access to Social Resources - Economic trends in Tamil Nadu – Role and impact of social welfare schemes in the Socio-Economic Development of Tamil Nadu.
- (iii) Social Justice and Social Harmony as the Cornerstones of Socio-Economic Development.
- (iv) Education and Health Systems in Tamil Nadu.
- (v) Geography of Tamil Nadu and its impact on Economic growth.
- (vi) Achievements of Tamil Nadu in various fields.
- (vii) e-Governance in Tamil Nadu.

**UNIT-X: APTITUDE AND MENTAL ABILITY**

- (i) Simplification – Percentage - Highest Common Factor (HCF) - Lowest Common Multiple (LCM).
- (ii) Ratio and Proportion.
- (iii) Simple interest - Compound interest - Area - Volume - Time and Work.
- (iv) Logical Reasoning -Puzzles-Dice - Visual Reasoning - Alpha numeric Reasoning – Number Series.

**ANNEXURE – II****LIST OF DOCUMENTS TO BE SCANNED AND UPLOADED  
ALONG WITH THE ONLINE APPLICATION****(Size of each document should be less than 200 KB  
in PDF format (Single page or Multiple page))**

1.	SSLC Mark Sheet
2.	HSC Mark Sheet or its equivalent
3.	<u>Educational qualification:</u>  Bachelors Degree in Veterinary Science / Master Degree in Veterinary Science / M.Phil. / Ph.D. Certificate / Consolidated Mark Sheet for the qualification (As prescribed ) mentioned in Para 5(B) of Notification
4.	G.O. for Equivalence of qualification to the prescribed qualification (if applicable)
5.	I. Registration Certificate for Veterinary Council /  II. Certificate with regard to Registered Veterinary Practitioner within the meaning of the Indian Veterinary Council Act, 1984 (Central Act 52 of 1984)
6.	Community Certificate obtained from the Competent authority (In case of women candidate, in the name of her Father / Mother)
7.	a. Certificate regarding physical limitation in an examinee to write as prescribed in Appendix-I of the G.O.(Ms) No.8, Welfare of Differently Abled Persons (DAP 3.2) Department, dated 21.09.2021 (for persons claiming exemption from <b>Tamil Eligibility Test</b> / scribe / compensatory time) (if applicable)  b. A copy of Disability Certificate in the format prescribed in the Rights of Persons with Disabilities Rules, 2017 [Department of Empowerment of Persons with Disabilities (Divyangjan), Ministry of Social Justice and Empowerment, Government of India] and issued by the competent authority defined in G.O.Ms. No.28, Welfare of Differently Abled Persons (DAP 3.1), dated 27.07.2018.
8.	Destitute Widow Certificate (if applicable)
9.	Ex – servicemen Certificate (if applicable) (P.P.O, Bonofide Certificate)
10.	Transgender ID Card with Gender (if applicable)

11.	Gazetted copy for name change (if applicable)
12.	No Objection Certificate (mentioning the Disciplinary cases if any) as prescribed as per Instruction to Applicants para 14 - P (ii) (if applicable)
13.	Documents / Court Orders proving Acquittal / Conviction or FIR in case of pending cases for Criminal cases registered including charge sheet (if applicable)
14.	PSTM Certificate up to the prescribed qualification (i.e., up to 1 <sup>st</sup> std to BVSc., / MVSc.,) as prescribed in para 14 - R of the Instruction to Applicants. (if applicable)
15.	Other Documents (if any)

**For further details refer para 2W of "Instructions to Applicants"**

APPENDIXCertificate 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.

Due to the above mentioned disability following concession may be given:-

1. Exemption from Tamil / Second Language
  2. Extra \_\_\_\_\_ hours for writing theory exam.
  3. Allocation of a scribe.
  4. Over looking spelling mistakes and grammatical errors.
  5. Using calculator / assistive devices.
  6. \_\_\_\_\_ (any other assistive devices or concessions).
- \*strike out the not applicable.

Signature  
(Chief Medical Officer/Civil Surgeon/Medical Superintendent/signature of  
the notified medical authority of a Government health care institution)

Name & Designation

Name of the Government Hospital/Health Care Centre/The notified medical authority

Place:

Date:

Signature / Thumb impression  
of the Differently abled person

(Photo of the Differently  
Abled Person and Stamp  
to be fixed here)

**Note:**

Certificate should be given by a specialist of the relevant stream/ disability (eg, Visual impairment – Ophthalmologist, Locomotor disability – Orthopedic specialist/ PMR .etc)



### சுருக்கம்

தெரிவுகள் - தமிழ்நாட்டில் உள்ள அனைத்து தெரிவு முகமைகளால் நடத்தப்படும் போட்டித் தேர்வுகளில் தமிழ் மொழித் தகுதித் தேர்வினை எழுதுவதிலிருந்து மாற்றுத்திறனாளி தேர்வர்களுக்கு விலக்களித்தல் - ஆணைகள் வெளியிடப்படுகின்றன.

### மனிதவள மேலாண்மை (எம்)த் துறை

அரசாணை (நிலை) எண்.49

நாள்: 23.05.2022

சுபகிருது வருடம், வைகாசி - 09,

திருவள்ளூர் ஆண்டு 2053

படிக்கப்பட்டது:

1. அரசாணை (நிலை) எண்.133, மனிதவள மேலாண்மை (எம்) துறை, நாள் 01.12.2021.
2. செவித்திறன் குறைபாடு உள்ளவர்களின் பெற்றோர் சங்கத்தின் செயலாளரின், 01.03.2022-ம் நாளிட்ட மனு
3. செயலாளர், தமிழ்நாடு அரசுப் பணியாளர் தேர்வாணையம், கடித எண்.5476/RND.E/2018, நாள் 05.05.2022

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### ஆணை :

மேலே படிக்கப்பட்ட அரசாணை (நிலை) எண்.133, மனிதவள மேலாண்மை (எம்) துறை, நாள் 01.12.2021-ல் அரசுத் துறைகளில் உள்ள பணியிடங்கள் அனைத்திலும் தமிழக இளைஞர்கள் பெருமளவில் நியமனம் பெற ஏதுவாக, மாநிலத்தின் தெரிவு முகமைகளால் நடத்தப்படும் அனைத்துப் போட்டித் தேர்வுகளிலும் தமிழ்மொழித் தகுதித்தாள் கட்டாயமாக்கப்பட்டு ஆணைகள் வெளியிடப்பட்டன. அவ்வரசாணைக்கிணங்க, தமிழ்நாடு அரசுப் பணியாளர் தேர்வாணையம், போட்டித் தேர்வுகளில் தமிழ் மொழித் தாளினை கட்டாயத்தாளாக இணைத்து, அதற்கேற்ப அறிவிக்கைகளை வெளியிட்டு தெரிவு நடவடிக்கையினை மேற்கொண்டுவருகிறது.

2. மேலே இரண்டாவதாகப் படிக்கப்பட்ட, செவித்திறன் குறைபாடு உள்ளவர்களின் பெற்றோர் சங்கத்தின் மனுவில், காது கேளாத மற்றும் வாய்பேச

(த.பி.பா.)

/2/

இயலாத மாற்றுத்திறனாளிகள், இரண்டு அல்லது அதற்கு மேற்பட்ட மொழிகளைக் கற்க சிரமப்படுவார்கள் என்றும், இம்மாணவ மாணவியர்கள் சிலர் முன்பருவபள்ளி முதல் பட்டப்படிப்பு வரை முழுமையாக ஆங்கில வழிக் கல்வியில் மட்டுமே கல்வி கற்றிருப்பார்கள் எனத் தெரிவித்து தமிழ்நாடு அரசுப் பணியாளர் தேர்வாணையத்தால் நடத்தப்படுகின்ற தொகுதி-IV பதவிகளுக்கான போட்டித் தேர்வில் இத்தேர்வர்களுக்கு தமிழ் மொழித் தகுதித் தேர்வு எழுதுவதிலிருந்து விலக்களித்து அவர்களுக்கென தனியாக பொது ஆங்கில தாளினை நடத்த கோரியுள்ளனர்.

3. மேற்காணும் கோரிக்கை குறித்து மாற்றுத்திறனாளிகள் நலத்துறையுடன் கலந்தாலோசிக்கப்பட்டது. மேலும், இது குறித்து மேலே மூன்றாவதாகப் படிக்கப்பட்ட கடிதத்தில் தமிழ்நாடு அரசுப் பணியாளர் தேர்வாணையச் செயலாளர் வழங்கியுள்ள குறிப்புரையினை ஏற்று, அரசாணை (நிலை) எண்.133, மனிதவள மேலாண்மை (எம்) துறை, நாள் 01.12.2021-ல் ஆணையிடப்பட்டுள்ள கட்டாய தமிழ்மொழித் தகுதித் தேர்வினை எழுதுவதற்கு மாற்றுத் திறனாளிகளுக்கு விலக்களித்து அரசு பின்வருமாறு ஆணையிடுகிறது:-

- (அ) தமிழ்நாடு அரசுப் பணியாளர் தேர்வாணையத்தால், நடத்தப்படும் தொகுதி - I, II, II-A போன்ற இரண்டு நிலைகளைக் கொண்ட தேர்வுகளில், முதன்மை எழுத்துத்தேர்வில் (Main Written exam) கட்டாய தமிழ்மொழித்தாளானது தகுதி தேர்வாக (Tamil eligibility Test) நடத்தப்படுகிறது. இதுபோன்ற தேர்வுகளில் கட்டாயத் தமிழ்மொழித் தகுதித் தாளினை எழுதுவதிலிருந்து மாற்றுத் திறனாளிகளுக்கு விலக்களிக்கப்படுகிறது.
- (ஆ) தமிழ்நாடு அரசுப் பணியாளர் தேர்வாணையத்தால், நடத்தப்படும் தொகுதி-III, IV, VII-B, VIII, போன்ற ஒரே நிலை கொண்ட தேர்வுகளில் தமிழ் மொழித்தாளானது, தகுதி மற்றும் மதிப்பீட்டுத் தேர்வாக (Tamil Eligibility-cum-Scoring Test) நடத்தப்படுகிறது. இத்தேர்வுகளில், Board / University-ல் ஆங்கில மொழிப் பாடம் மட்டுமே படித்த மாற்றுத்திறனாளிகளுக்கு, தமிழ் மொழித்தாளர் எழுதுவதிலிருந்து விலக்களிக்கப்படுகிறது. அதற்குபதில், ranking மதிப்பீடு செய்வதற்காக, அவர்களுக்கென்று தனியாக பொது ஆங்கிலத்தேர்வு (SSLC standard-ல்) நடத்தப்படும். (இத்தேர்வுகளில் மொழி பெயர்ப்புப்பகுதி இடம் பெறாது).
- (இ) அரசாணை (நிலை) எண்.133, மனிதவள மேலாண்மை (எம்) துறை, நாள் 01.12.2021-ல் ஆணையிடப்பட்டுள்ள கட்டாய தமிழ் மொழித் தாளிலிருந்து மாற்றுத்திறனாளிகளுக்கான விலக்கு, தமிழ்நாடு அரசுப் பணியாளர் தேர்வாணையம் மட்டுமல்லாமல், மாநிலத்தின் மற்ற தெரிவு முகமைகளால் நடத்தப்படும் அனைத்து போட்டித் தேர்வுகளுக்கும் மற்றும் நியமன அலுவலர்களால் தேவைப்படும் நேர்வுகளில் நடத்தப்படும் எழுத்துத் தேர்வுகளுக்கும் பொருந்தும்.
- (ஈ) இவ்வாறான விலக்கு, அரசாணை (நிலை) எண்.62, பள்ளிக் கல்வித்துறை, நாள் 25.03.2022ல் குறிப்பிடப்பட்டுள்ள மாற்றுத் திறனாளிகளுக்குப்

பொருந்தும். மேற்காண் அரசாணையில் குறிப்பிடப்பட்டுள்ள மாற்றுத்திறனாளிகளின் தொடர்பான விவரப் பட்டியல் கீழ்க்கண்டவாறு:-

(1)	உடல்குறைபாடு - உடல் இயக்கக் குறைபாடு	Physical disability - Locomotor disability, Leprosy cured, Cerebral palsy, Dwarfism, Muscular Dystrophy, Acid Attack victims.
(2)	உடல் குறைபாடு - பார்வைக் குறைபாடு	Physical disability - Visual Impairment - Blindness, Low Vision
(3)	உடல் குறைபாடு - செவித்திறன் குறைபாடு	Physical disability - Hearing Impairment - Deafness, Hard of hearing
(4)	உடல் குறைபாடு - பேச்சு மற்றும் மொழித்திறன் குறைபாடு	Physical disability - Speech and Language disability
(5)	அறிவுசார் குறைபாடு	Intellectual disability, Specific Learning disability (Dyslexia, Dysgraphia, Dyscalculia, Dyspraxia), Developmental Aphasia, Autism Spectrum Disorder
(6)	மன நலம் சார்ந்த குறைபாடு - மனநலம் பாதிப்பு	Mental Behaviour - Mental illness
(7)	நாள் பட்ட நரம்பியல் குறைபாடுகள்	Disability caused due to Chronic Neurological conditions, Multiple Sclerosis, Parkinson's disease, Haemophilia, Thalassaemia, Sickle Cell disease
(8)	பன்முகக் குறைபாடுகள் (பார்வையின்மையோடு செவித்திறன் குறைபாடு உட்பட)	Multiple Disabilities including deaf, blindness

இவ்விலக்கு 40 சதவீதத்திற்கும் குறைவான குறைபாடுகளைக் கொண்ட மாற்றுத் திறனாளிகளுக்கும் பொருந்தும்.

(உ) இவ்விலக்கினை பெறவிரும்பும் மாற்றுத்திறனாளிகள் உரிய மாற்றுத்திறனாளி சான்றிதழ் (Disability Certificate) சமர்ப்பித்தல் வேண்டும்.

(ஆளுநரின் ஆணைப்படி)

மைதிலி கேராஜேந்திரன்  
அரசு செயலாளர்

**பெறுநர்**

செயலாளர், தமிழ்நாடு அரசுப் பணியாளர் தேர்வாணையம், சென்னை - 600 003.

அரசுக் கட்டுதல் தலைமைச் செயலாளர், உள், மதுவிலக்கு மற்றும்

ஆயத்தீர்வை துறை, சென்னை - 600 009.

(த.பி.பா.)

**ANNEXURE -III**

CERTIFICATE OF PHYSICAL FITNESS BY A SINGLE MEDICAL OFFICER  
THE CIVIL MEDICAL BOARD

Signature of Candidate \_\_\_\_\_

I/We hereby certify that I/We have examined (full name) Thiru/Thirumathi  
 /Selvan/Selvi \_\_\_\_\_

a Candidate \_\_\_\_\_ for employment under the Government as \_\_\_\_\_ in the  
 \_\_\_\_\_ Office in the \_\_\_\_\_

\_\_\_\_\_ department and whose signature is given above and cannot discover  
 that he/she has any disease, communicable or otherwise constitutional affliction or  
 bodily infirmity/except that his/her weight is in excess of/below the standard  
 prescribed or except.

I/We do not consider this a disqualification for the employment he/she seeks.

His/Her age is according to his/her own statement \_\_\_\_\_ Years and by  
 appearance about \_\_\_\_\_ Years

I/We also certify that he/she has marks of smallpox/vaccination.

Chest measurement in On full inspiration  
On full expiration  
 Difference expansion

Weight in Kg.

Cardio - Vascular System

Respiratory system

His/Her vision is normal

Hypermetropic/ \_\_\_\_\_ Myopic/ \_\_\_\_\_ Astigmatic/ \_\_\_\_\_

(Here enter the degree of defect and the strength of correction glasses)

Hearing is normal/defective (much or slight)

Urine - Does chemical examination show-

(I) Albumen

(II) Sugar

State Specific gravity

Personal marks (at least two should be mentioned)

For Identification

1.

2.

Signature:

Rank:

Designation:

President

Members (i)

(ii)

Station:

Station:

Date:

Date:

The candidate must make the statement required below prior to his/her medical examination and must sign the declaration appended thereto. His attention is specially directed to the warning contained in the note below:-

1. State your name in full
2. State your age and date of Birth
3. (a) Have you ever had small-pox intermittent or any other fever, enlargement or suppuration of glands, spitting of blood, asthma, inflammation of lungs, heart disease fainting attacks, rheumatism, appendicitis?

OR

- (b) Any other disease or accident requiring confinement to bed and medical or surgical treatment?
4. When were you last vaccinated
5. Have you or any of your near relation been afflicted with consumption, serofula gout, asthma, fits, epilepsy or insanity?
6. Have you suffered from any form of nervousness due to over work or any other cause?
7. Furnish the following details concerning your family  
Father's age, if living and state of health

Father's age, if living and state of health (1)	Father's age at death and cause of death (2)	Number of brothers living, their ages and state of health. (3)	Number of brothers dead, their ages at and cause of death (4)

Mother's age, if living and state of health (1)	Mother's age at death and cause of death (2)	Number of sisters living, their ages and state of health. (3)	Number of sisters dead, their ages at and cause of death (4)

I declared all the above answers to be, to the best of my belief, true and correct,

Candidate's Signature

Note:- The candidate will be held responsible for the accuracy of the above statement. by wilfully suppressing any information he will incur the risk of losing the appointment and if appointed, of forfeiting all claim to superannuation allowance or gratuity

Medl. I-68.

**ANNEXURE – IV****COMPUTER BASED TEST (CBT)**  
**IMPORTANT INSTRUCTIONS**  
**OBJECTIVE TYPE**

- a) One question will be displayed on the screen at a time.
- b) Time available for you to complete the examination will be displayed through a countdown timer in the top right-hand corner of the screen. It will display the remaining time as **Time Left**. At the beginning of exam, timer will show 180 minutes (240 minutes for Differently Abled candidates with scribe) which will reduce gradually with passage of time. When the timer reaches zero, the examination will end by itself and your examination will be submitted by the system automatically.

**c) Question Number Box:**

1. Question Number Box displayed on the right side of the screen will show the status of each question using one of the following symbols:

-  You have not visited the question yet.
-  You have not answered the question.
-  You have answered the question.
-  You have NOT answered the question, but have marked the question for review.
-  You have answered the question and marked for review. This will be considered for evaluation.

The 'Marked for Review' status for a question simply indicates that you would like to look at that question again.

2. You can click on the ">" arrow which appears to the left of question number box to minimize the question number box. This will enable you to view the question on a bigger area of the screen. To view the question number box again, you can click on "<" arrow which appears on the right side of the screen.



You can click on  to navigate to the bottom and  to navigate to the top of the question area, without scrolling.



3. The summary of number of questions answered, not answered, not visited, marked for review and answered and marked for review will be displayed above the question number box.

#### **d) Answering a Question**

- i) The questions will appear on the screen in ascending order, which can be answered one by one.
- ii) To select your answer of a question, click on the button of one of the options.
- iii) **Click on Save and Next button after answering every question to save your answer.** Otherwise your answer will not be saved.
- iv) To deselect your chosen answer, click on the button of the chosen option again or click on the **Clear Response** button.

#### **e) Instruction for enlarging images**

To view the image provided in the question in a bigger size, click on the image and rotate the scrolling wheel on the mouse.

**Any attempt of malpractice found, will render you liable to such action or penalty as Commission may decide.**

**ANNEXURE - V****TENTATIVE TIMELINE FOR THE RECRUITMENT PROCESS**

<b>Sl. No.</b>	<b>Process</b>	<b>Timeline</b>
1.	Last date upto which the Online Application can be edited/ submitted/ payment of fees can be made	19.10.2023
2.	Online Application Correction Window period	From <b>24.10.2023</b> 12.01 A.M to <b>26.10.2023</b> 11.59 P.M
3.	Last date upto which the applicants are permitted to upload/ re-upload the documents	28.11.2023
4.	Publication of Examination (CBT Method) Results	February 2024
5.	Certificate Verification / Oral Test	March 2024
6.	Counselling	March 2024

**Secretary**