

## TAMILNADU UNIFORMED SERVICES RECRUITMENT BOARD

Old Commissioner Of Police Office Campus, Pantheon Road, Egmore, Chennai-8.

Website: www.tnusrbonline.org

## **Information Brochure**

## **RECRUITMENT FOR THE POST OF SUB-INSPECTOR OF POLICE (TECHNICAL) 2018**

#### **Introduction**

**1.** Tamil Nadu Uniformed Services Recruitment Board is constituted by the Tamil Nadu Government. This Board is conducting competitive examinations for the posts of Gr.II Police Constables, Gr.II Jail Warders, Firemen, Sub-Inspectors of Police, Sub-Inspectors of Police (Technical) and Sub-Inspectors of Police (Finger Print) and selecting the eligible candidates for these posts.

#### **Instructions**

- **2.** The candidates are instructed to read all the instructions in this Information Brochure and read the Instructions to the candidates "How to Apply" which is available in this Board's website <a href="https://www.tnusrbonline.org">www.tnusrbonline.org</a> and fill the required details in the online application and upload all the required certificates / documents.
- **3. SERVICE RULE:** Adhoc Rules to the post of the Technical categories.
- **4. NO. OF VACANCIES:** 309.
- **5. SYLLABUS**: The Syllabus for this recruitment is available in Annexure.I

#### **6. SPECIMEN COPIES OF CERTIFICATES:**

- i. The specimen copy of certificate for having studied the required educational qualification in Tamil medium is available in Anneuxre.II
- ii. The specimen copy of Under Taking certificate to be given by Armed Personnel who are going to retire within one year is available in Annexure.III
- iii. The specimen copy of Identity card issued by Tamil Nadu Aravanikal Welfare Board, Tamil Nadu is available in Annexure.IV
- iv. The specimen copy of Destitute widow certificate is available in Annexure.V
- v. The specimen copy of NOC to be furnished by the departmental candidates is available in Annexure.VI.
- vi. List of banks for net banking is available in Annexure.VII.
- vii. Details of recognised Sports Association is available in Annexure.VIII.

#### 7. COMMUNAL RESERVATION:

a) The following communal reservation will be followed as per existing rules and Government Orders:-

- Open Competition 31%, Backward Class -26.5%, Backward Class (Muslim) 3.5%, Most Backward Class/Denotified Communities 20%, Scheduled Caste 18% [Including 3% for Scheduled Caste (Arunthathiyar)] and Scheduled Tribe 1%.
- b) The candidates belong to Tamil Nadu only be considered under communal reservation.
- c) If excess number of eligible candidates are available after filled up for SC (Arunthathiyar) they will be selected under Scheduled Caste reservation, if no eligible candidate is available for filling up Scheduled Caste (Arunthathiyar) vacancies, these vacancies will be filled by other Scheduled Caste candidates other than the Scheduled Caste (Arunthathiyar).

#### 8. AGE:

The applicant should have completed the age of 20 years and should not be aged above 28 years as on 01.07.2018 (should have been born on or after 01.07.1990 and on or before 01.07.1998). The upper age limit relaxation given to certain categories is as follows:-

Category	Upper age limit
Backward Class, Backward Class (Muslim), Most Backward	20 vrs
Class/Denotified Community.	30 yrs
Scheduled Caste, Scheduled Caste (Arunthathiyar), Scheduled	22 vrc
Tribe.	33 yrs
Destitute Widow	35 yrs
Ex-servicemen/Ex-personnel of Central Para-military Forces	
(Discharged from service within 3 years from the date of	
notification i.e. must have been discharged on or after	45 yrs
11.07.2015) / Serving persons who are going to retire within one	
year from the last date of receipt of application.	
Police Departmental candidates appearing for 20% departmental	
quota examination (Should have completed 5 years of service as	45 yrs
on 11.07.2018)	

#### 9. EDUCATIONAL QUALIFICATION

I. Candidates should possess minimum a second class diploma in Electronics and Communication Engineering awarded by the State Board of Technical Education, Tamil Nadu

or

A Degree (B.E/B.Tech) in Electronics and Communication engineering recognised by All India Council for Technical Education.

- II. The candidate must have obtained the Diploma / Degree before the date of notification i.e. 11.07.2018.
  - a) The Diploma should have been obtained after completion of SSLC or Higher Secondary course and
  - b) Degree should have been obtained after completion of SSLC and HSC or Diploma.
  - c) Degree should have been obtained after completion of SSLC and 3 years Diploma.
- III. Candidates should have studied Tamil as a subject in X / XII. If not studied, candidates will have to pass the Tamil-Part II Test conducted by Tamil Nadu Public Service Commission within 2 years of joining the service.

#### **10. SPECIAL QUOTA**:

Vacancies are allotted to special quota as follows:-

Quota	Percentage of overall vacancies	Eligibility
Police Departmental Quota	20%	20% Police Departmental candidates (Police Constables to Head Constables) should have put in atleast five years of service in any of the posts and they should have a clean record of service without any punishment other than minor punishments of Black Mark, reprimand and censure.

#### Note:-

- i. If suitable departmental candidates are not available to fill up the 20% Police Departmental quota then the unfilled vacancies shall be filled up by the candidates from the open quota of the same community.
  - ii. Communal reservation is provided within special quota as per existing rules.

#### 11. ELIGIBILITY FOR APPLYING UNDER 20% POLICE DEPARTMENTAL QUOTA

- i. Police Constables and Head Constables and their equivalent ranks in the Armed Reserve Police and Tamil Nadu Special Police can apply under 20% Departmental Quota if they meet the following eligibility criteria.
  - a. They should have completed 5 years of service as on the date of notification.
  - b. They should have a clean record without any punishment other than the minor punishments of black mark, reprimand and censure.
  - c. The departmental candidates should obtain a NOC from the Head of Unit / Office / competent authority and it should be uploaded while applying online application.
- ii. Departmental candidates can apply only one online application either under open quota or under departmental quota for this recruitment since, only one Online Computer Based Test or Written Examination is conducted for this recruitment.
- iii. Departmental candidates applying under 20% departmental quota are exempted from Physical Measurement Test. However, they are required to attend the Certificate verification 1:5 ratio and Viva-Voce in 1:3 ratio.

#### 12. CONCESSIONS FOR SPECIAL CATEGORIES

- A. <u>EX-SERVICEMEN / EX-PERSONNEL OF CENTRAL PARA-MILITARY FORCES /SERVING PERSONS WHO ARE GOING TO RETIRE WITHIN ONE YEAR FROM THE LAST DATE OF RECEIPT OF APPLICATION:-</u>
  - i. <u>Age Relaxation</u>: The upper age limit shall be 45 years on the 1<sup>st</sup> July 2018. However the Ex-Servicemen / Ex-Personnel of Central Para-military Forces

candidature be considered for a period of 3 years from the date of discharge from service. The discharge certificate will have to be uploaded. The document uploaded without mentioning the date of discharge will not be considered for relaxation of age.

- ii. The Armed Forces / CPMF serving personnel who are going to retire within one year from the last date of receipt of online application should upload a certificate with self undertaking obtained from the Commanding Officer of his unit.
- iii. If the Ex-servicemen / Ex-personnel of CPMF fail to upload their discharge certificate, their application will not be considered under Ex-serviceman category.
- iv. The Ex-servicemen/ Ex-personnel of CPMF who have not completed three years of period after discharge from service only can apply for this recruitment.
- v. The Ex-servicemen / Ex-personnel of CPMF once recruited to a post in any service or class or category cannot claim the concession of Ex-servicemen for this recruitment.
- vi. They should attend the Online Computer Based Test or Written Examination, Physical Measurement Test (PMT), Certificate Verification and Viva-Voce.

#### **B.DESTITUTE WIDOW:-**

- i. Age Relaxation: The upper age limit shall be 35 years as on the 1<sup>st</sup> July 2018.
- ii. The Destitute Widow candidates should obtain "Destitute Widow Certificate" from the Revenue Divisional Officer / Sub-Collector / Assistant Collector and upload the same along with the online application.
- iii. If the Destitute Widow candidates fail to upload the Destitute Widow certificate obtained from the Revenue Divisional Officer / Sub-Collector / Assistant Collector along with their application they will not be considered under Destitute Widow category.

#### 13. TRANSGENDER:

- a) The Transgender candidates may decide their self-identified gender anyone such as male or female or as third gender. If a Transgender candidate applies under third gender should upload an Identity Card obtained from the Tamil Nadu Transgenders Welfare Board.
- b) If a transgender candidate choose the gender as male should participate in the Physical Measurement Test prescribed for male candidates. If a transgender candidate choose the gender as female should participate in the Physical Measurement Test prescribed for female candidate.
- c) If transgender candidate applies under Third gender and will be treated like women candidate. The 30% reservation will apply to them.
- d) If the transgender candidates produce their community certificate, they can get the beneficiary of communal reservation like other candidates.

e) If the transgender candidates does not produce their community certificate, they will be treated as Most Backward Class category.

#### 14. EXAMINATION FEE:

The candidate will have to pay examination fee Rs.500/- . The payment options are online and offline through State Bank of India.

#### a) Challan related:

- i. When "CASH" mode is chosen for payment by the candidate, then the other online modes like Net banking, Credit card / Debit card and UPI are restricted to the candidate for payment.
- ii. On choosing the "CASH" mode of payment, the challan is generated and the details of the challan will be sent to the candidate's e-mail id also.
- iii. The challan generated through SBI e-pay portal "CASH" mode is valid for 6 days as per the date mentioned in the challan.
- iv. The Challan payment can be made at any of the SBI bank branches only during the bank transaction hours. The transaction hours may vary from branch to branch.
- v. If the payment is not made through the generated challan within the valid period (6 calendar days from generation), then the application of the candidate becomes invalid. The candidate has to register again with new e-mail ID and Mobile number to fill a new application for the post.

#### b) Online Payment:

- i. If the candidate choose any of the Online payment modes like Net banking or Credit card or Debit card or UPI and if there is any interruption or disconnection in making payment or if the payment gets cancelled due to unknown reasons if any, then the candidate is allowed to make payment only after 30 minutes.
- ii. If the payment is successful, then the status of the payment will be reflected in the candidate's dashboard within 24 hours.
- iii. If the candidate is not able to pay through any of the Debit / Credit card he /she can go for cash / Net banking mode of payment.
- iv. The candidates are advised to submit the application and make payment well in advance before the last date of notification to avoid last minute congestion and failures.

#### D) CONFIRMATION OF EXAMINATION FEE:

- i. Candidate should be aware that the amount debited from your account does not mean the payment is successful towards examination fee and acceptance of application form, unless a receipt is generated in the dashboard.
- ii. After successful completion of payment and submission of application, a confirmation SMS and e-mail will be sent to the candidate's registered mobile number and e-mail ID.

#### **15. EXAMINATION CENTRE:**

Exam centre will be intimated at the time of the issuing of Hall Ticket by TNUSRB.

## 16. ONLINE COMPUTER BASED TEST OR WRITTEN EXAMINATION AND DISTRIBUTION OF MARKS:

All the eligible candidates will be called for Online Computer Based Test or Written Examination. The distribution of marks for this Board are as follows:-

SI. No	Tests		Marks
1	Online Computer Based Test or Written Examination  (a) General knowledge  (b) Technical subjects	80 Marks 30 Marks 50 Marks	
2.	Marks for additional educational qualification	5 Marks	
3	Special Marks	5 Marks	Open candidates NCC -2 marks, NSS -1 mark, Sports/Games-2 marks.
		3 Marks	Departmental candidates: National Police Duty Meet  Gold ó 5 Marks Silver ó 3 Marks Bronze ó 2 Marks
4	Viva-voce	10 Marks	1
	TOTAL	100 Marks	

- i) The examination will be conducted through Online Computer Based Test or Written Examination.
- ii) The candidates must have computer knowledge.
- iii) The duration of Online Computer Based Test or Written Examination is 3.00 hrs.
- iv) Minimum qualifying marks in the examination shall be 28 marks out of 80 marks.
- v) Question papers will contain 160 objective type questions. Each question carries ½ marks.

Note: After completion of Online Computer Based Test or Written Examination, the answer key will be published in this Board's website <a href="www.tnusrbonline.org">www.tnusrbonline.org</a>. Candidate may represent to the Board (in writing) raising a dispute over questions and/or answers along with the material proof within 7 days from the date of publication of preliminary answer key by the post. The results of the examination will be published in this Board's website <a href="www.tnusrbonline.org">www.tnusrbonline.org</a>.

#### 17. PHYSICAL MEASUREMENT TEST:

Only the candidate clearing the Online Computer Based Test or Written Examination will be called for in 1:5 ratio according to the vacancy for next phase of selection i.e. Physical Measurement Test. The Physical Measurement Test comprises of height and chest measurement for men and height measurement for women and Transgender candidates. The minimum eligibility requirement is as follows:

#### I. MEN:-

Height					
OC, BC, BC(M), MBC/DNC	Minimum 163 cms				
SC, SC(A) and ST	Minimum 160 cms				
Chest					
(i) Normal	Minimum 80 cms				
(ii) Expansion	Minimum 5 cms				

#### II. WOMEN AND TRANSGENDER:-

Height	
OC, BC, BC(M) and MBC/DNC	Minimum 154 cms
SC, SC(A) and ST	Minimum 152 cms

#### Note:-

- i. 20% Departmental Quota candidates are exempted from Physical Measurement Test.
- ii. Only the open candidates who qualify in the Physical Measurement Test will be allowed to appear for the original Certificate Verification. Similarly, the departmental candidates who are called for in the 1:5 ratio will be allowed for original Certificate Verification.

#### 18. CERTIFICATE VERIFICATION AT CENTRE:

- i. The open candidates who qualify in Physical Measurement Test will be called for original certificate verification.
- ii. The Departmental candidates will be called for in the 1:5 ratio for original certificate verification.
- The candidates who are called for Certificate Verification will have to produce their **original certificates** which they had uploaded during submission of the online application. Candidate who fails to produce the Original Certificates will lose his/her claims with regard to communal reservation, age relaxation and special quota. New certificates /claim other than uploaded certificates will not be entertained.

#### 19. VIVA-VOCE:

- i. The candidates who qualifies in Online Computer Based Test or Written Examination, Physical Measurement Test and original certificate verification will be called for Viva-voce in the ratio of 1:3.
- ii. The Viva-Voce will be conducted at TNUSRB headquarter. Candidates who are called for Viva-Voce should produce all the Original Certificates at the time of Viva-Voce.
- iii. Candidates who are serving as Government Servants (other than the departmental quota candidates) in State Government should produce "No Objection Certificate" obtained from their respective Unit Heads.
- iv. Candidates who are possessing NCC / NSS / Sports Certificates or Medals received in National Police Duty Meet (in-case of Departmental candidates) should produce the Original Certificates along with one photo copy of the same at the time of Viva-Voce for awarding of special marks.

#### 20. MARKS FOR ADDITIONAL EDUCATIONAL QUALIFICATIONS:

Marks shall be given to the candidates for possessing additional educational qualifications as detailed below, subject to a maximum of five marks. These additional marks will be awarded to the candidates possessing the following certificates during Viva-voce.

Educational Qualification	Marks
B.E. Degree in Electronics and	2
Communication Engineering -4 Years	
BCA/B.Sc degree in Computer Science or B.Sc	2
IT-3 years	
B.E. or B.Tech Degree in Computer Science or	3
I.T-4 Years	
Post Graduate Diploma in Computer	1
application-1 Year	
M.E or M.Tech degree in Communication	1
Systems -2 Years	
M.E or M.Tech degree in Computer Science -	2
2 Years	
MCA-3 Years	2

#### 21. SPECIAL MARKS FOR NCC/NSS/SPORTS/GAMES:

Special marks shall be given to the candidates during viva-voce as detailed below, subject to a maximum of five marks.

#### I. Open Quota Candidates

### a. National Cadet Corps (NCC)(Maximum 2 Marks)

One Year Member/ "A" certificate	½ Mark
Possession of "B" Certificate	1 Mark
Possession of "C" Certificate/Under Officer	2 Marks
Best Cadet in All India level	

#### b. NATIONAL SERVICE SCHEME(NSS) Maximum 1 Mark

Participation in a National Programme like Republic Day parade in New	
Delhi/National Integration and Motivation Camps/Inter State Youth Exchange	½ mark
Programme by the Department of Youth Affairs and Sports of State Government	
Best Volunteer at State Level/National level or Best NSS Cadet at Republic Day	1 mark
Parade in New Delhi	
As per G.O.No.8 dated:21.01.2002 and participation in regular activities or State	½ mark
Special camps	

#### C. Sports / Games (Maximum 2 Marks)

<u>Approved 15 games :-</u> 1. Basket Ball, 2.Football, 3.Hockey, 4.Volley Ball, 5.Hand Ball, 6.Kabbadi, 7.Wrestling, 8.Boxing, 9.Gymnastics, 10.Judo, 11.Weight Lifting, 12. Aquatics (Swimming), 13.Athletics, 14.Equitation (Horse riding) and 15. Rifle Shooting are eligible for awarding of marks.

i. The candidates should have participated in the games through the associations recognized by the Sports Development Authority of Tamil Nadu.

- ii. The candidate should have participated in the events representing Tamil Nadu State / Indian Nation and obtained the Form.I or Form.II certificates from the recognized associations of Sports Development Authority of Tamil Nadu or Tamil Nadu National Olympic Association or Affiliated Association of National Federation of India.
- iii. The candidates should have participated in the events representing the Tamil Nadu Colleges / Universities and obtained the Form.III certificates.

Represented School in District level	½ mark
Represented College in zonal level (Inter Collegiate)	½ mark
Represented University (Form-III) (Inter University)	1 mark
Represented District in Inter District tournament	1 mark
Represented State (Form-II)	1 ½ mark
Represented Nation in international Competition (Form-I)	2 marks

In each category, the highest certificate (yielding maximum marks) will be considered. The maximum special mark a candidate can claim is 5.

#### II. DEPARTMENTAL QUOTA CANDIDATES

,				
Winning of medal in the National Police Duty Meet( Maximum 5 marks)				
Gold Medal	5 marks			
Silver Medal	3 marks			
Bronze Medal	2 marks			
Departmental Quota candidates shall not be eligible for special	marks for NCC/NSS/Sports/			
Games.				
Maximum special mark a candidate can claim is 5.				

#### 22. PROVISIONAL SELECT LIST:

- a. Provisional Select List is drawn based on the total marks obtained in the Online Computer Based Test or Written Examination, Viva-Voce and Special marks subject to communal reservation and total vacancies.
- b. If there is a tie in marks, the candidate senior in age shall be given priority in selection.
- c. If the marks secured are equal and date of birth is same preference shall be given to the candidate who is an outstanding scout, having received an award from the President of India.
- d. Persons recruited to the post of Sub-Inspector of Police (Technical) under the 20% police departmental quota shall be placed above the direct recruits selected from open quota in the same recruitment.
- e. 20% of all vacancies shall be set apart on preferential basis for the persons who studied Diploma / graduation in Tamil medium.
- f. Differently abled persons are not eligible for appointment to the post.
- g. The provisional select list will be published in the Board's website www.tnusrbonline.org.

#### 23. MEDICAL EXAMINATION AND VERIFICATION OF CHARACTER AND ANTECEDENTS:

Provisionally selected candidates will have to undergo medical examination and verification of character and antecedents through Police Department.

#### 24. HELPLINE DESK:

A helpline desk at District Police Offices / City Police Offices in the districts and cities and TNUSRB headquarter, Chennai-8 for assisting the candidates to fill the online application. The helpline desk will be functioning from the date of notification to the last date of receipt of applications. The candidates who are having doubts in filling up of Online Application may approach the helpline desk functioning at respective District Police Offices / City Police Offices and TNUSRB headquarter, Chennai-8 and they can clear their doubts at the helpline desk.

#### 25. DOWNLOADING OF HALL TICKET:

SMS and E-mail alerts will be sent to the eligible candidates on the registered mobile number and e-mail ID for downloading the Hall Ticket for Online Computer Based Test or Written Examination. On receipt of SMS and E-mail alert, the candidate can login to his/her account with User ID and Password and download the Hall Ticket for the Online Computer Based Test or Written Examination.

#### 26. MEMORY OF USER ID AND PASSWORD:

All the communications will be sent to the candidates to their e-mail address and cell phones. Hence, the candidates are instructed to keep their User ID and Password in their memory till completion of this recruitment.

#### 27. DISCLAIMER:-

The Board or the Government will not be responsible for any mishaps during the Physical Measurement Test.

Member Secretary,
Tamil Nadu Uniformed Services Recruitment Board,
Chennai-08.

#### Annexure.I

#### **GENERAL KNOWLEDGE - BOTH FOR OPEN AND DEPARTMENTAL CANDIDATES**

- 1. **GENERAL SCIENCE:** It will cover general appreciation and understanding of science including matters of everyday observations and experience as may be expected of a well-educated person who has not made any special study of any scientific discipline. The questions shall be from topics- in Physics, Chemistry and Biology viz. Scientific Instruments, Inventions and Discoveries. Scientists and their contributions, Human Physiology, Diseases and their cause, cure and prevention, Diet and Balanced diet, Human Genetics, Animals, Mammals and Birds, Environment and Ecology, Elements and Compounds. Acids, Bases and Salts and allied subjects, Motion, Newton's Laws of motion Properties of Matter, Electricity, National Laboratories and other related topics. All these topics will be of basic nature.
- 2. **HISTORY OF INDIA**: Dates and events of Indian History from Indus Valley Civilisation to the present day Indian modern administration.
- 3. **GEOGRAPHY**: Regions of India, Weather, Monsoon and Climate, Rainfall, Natural Calamities, Crops, Crops pattern, Indian Towns and Places, Hill Stations, National Parks, Major Ports, Minerals, Location of Major Industries, Forests and Wildlife, Population distribution in India and other related topics.
- 4. **ECONOMICS AND COMMERCE**: Agriculture, Major crops and crop pattern in India, Industrial Development, Major, Medium, Small Scale and Cottage Industries of Tamil Nadu Village and Rural Development in India. Housing, Drinking water and other development schemes price policy, inflation, population and unemployment problems, imports and exports Industrial development and five year planning.
- 5. **INDIAN POLITY**: Indian Constitution, Salient Features, Citizenship, Elections, Parliament and State legislature, Executive, States, Judiciary system, Local Self- Governments, Centre-State Relations, Language Policy and Foreign Policy.
- 6. CURRENT EVENTS: Latest development in Science and technology, political developments in India, new developments in Trade, Transport and communication, historical events. Fine Arts like dance, drama, films, painting, major literary works, Games and Sports, National, International awards, National and International organizations, Abbreviations, Who is Who, Books and Authors, General Technology, India and its Neighbours, present day India and other related topics. Arts, Literature, Culture of India and Tamil Nadu.

#### **TECHNICAL - BOTH FOR OPEN AND DEPARTMENTAL CANDIDATES**

#### **UNIT 1**

#### **ELECTRONIC DEVICES AND CIRCUITS**

Semiconductor, intrinsic and extrinsic N type & p type, PN junction diode, zener diode, Rectifier, Bipolar Junction, Transistor, oscillators, Field effect Transistor, Unijunction Transistor, SCR, DIAC, TRIAC & MOSFET, Opto Electronic Devices and wave shaping circuits, BJT Amplifer, FET Amplifier, Feedback amplifier, Oscillator, IGBT, MOSFET, Converter and choppers., Inverters, PLC, DCS.

#### UNIT - II

#### **ELECTRICAL CIRCUITS AND MACHINES**

D.C. Circuits, current power, resistance, conductance, resistivity, ohm's law, kirchoff's law, A.C. Circuits, Resonance, Transformers and Power supplies, Test Instruments, D.C. Machines, types of Generator, induction motor, stepper motor, Universal Motor. Measuring instruments, Bridges, CRO, Digital storage Oscilloscope, Function generator, Transducers, Sensors, digital voltmeter, digital Multimeter, Power devices and Trigger circuits, Inverters and Applications.

#### UNIT - III

#### **MICRO ELECTRONICS**

Number System, Boolean Algebra and logic gates, Digital logic families, combinational circuits, sequential circuits, operational amplifier and its application, Phase locked loop, Digital to Analog converter, Analog to digital converter, IC Timer.

#### MICROPROCESSOR AND ITS APPLICATION

Introduction to Microprocessors and Microcontroller, Architecture & Instruction set of 8085 microprocessor and 8051 microcontroller, I/O and timer, Programming of 8085 microprocessor and 8051 microcontroller, Interrupt and Serial Communication for Data Transfer, Interfacing Techniques and its application.

#### **UNIT - IV**

#### **NETWORK, ANTENNA AND PROPAGATION**

Networks, Equalizer, Attenuator, Filters, Antennas: Fundamentals of Radiation, Antenna parameters, Oscillating dipole, half wave dipole, folded dipole, Yagi array, Aperture and Slot Antennas, Spiral antenna, Helical Antenna, Log periodic Antenna arrays, Antenna Measurements – Propagation of Radio Waves.

#### UNIT - V

#### **COMMUNICATION ENGINEERING AND SYSTEM**

Communication theory: Amplitude Modulation, Angle Modulation, Pulse Modulation Techniques. Digital Communication techniques: Information Theory, Digital Modulation Technique, Channel Codes, Spread Spectrum Techniques, Optical communication, wireless Communication: Wireless Communication Technologies (2G, 3G, 4G), Cellular Concepts, Multiple Access Techniques, Radar and Navigational Aids.

#### **UNIT VI**

#### PROGRAMMING AND APPLICATION OF COMPUTERS

Introduction to Computers, Hardware and Software installation and maintenance, Firmware Upgrading, Trouble Shooting of Desktop and Laptops, Accessing Scanners, Printers, facsimile communication system, Audio & Video Systems, Working with Word Processing, Spreadsheet, Database, Power Point and Internet software, recent trends in Social media and cyber security computer network devices and OSI layers, TCP/IP and 802.X Protocols, Cryptography and Network Security, Encryption and Decryption Algorithms, Authentication and Integrity Algorithms.

#### **PROGRAMMING IN "C"**

Program, Development and Introduction to C,C Operators, I/O Statements and Decision Making, Simple "C" Programming.

#### Annexure.II

தொழில்நுட	ட்ப கல்லூரி/ பெ	ாறியியல் க	ற்லூரியின <u>்</u>	பெயர்	:				
வரிசை எல	ळंं :	<u>தமிழ்பயிற</u> ்	<u>று மொழி</u>	பில் கற்றதற்	கான சான்றி	<u>ъф</u>	சேர்க்	கை எண் :	
						·	திரு/திருமதி ் மின்னணுவ்		 <sub>]</sub> ம் தொை
தொடர்பு 	பொறியியல்			படிப்பினை பயின்றுள்ளா		பயிற்று ர்று வழங்கப்ப	மொழியில் டுகிறது.	(Tamil	Medium
இடம் : நாள் :			ရေ	தாழில்நுட்ப		ழதல்வர் ஈறியியல் கல்	ுலூரியின் முக	எவரி முத்தி	ரையுடன்.

#### **ANNEXURE.III**

## Schedule VIII [See rule 52 (c)]

## Undertaking to be given by the candidate

I hereby accept that, if selected on the basis of the recruitment / examination to which this application relates, I will produce documentary evidence to the satisfaction of the appointing authority that I have been duly released / retired / discharged from the Armed Forces and I am entitled to the benefits admissible to Ex-servicemen given under rule 52 of General Rules for Tamil Nadu State and Subordinate Services as amended from time to time.

Place:							Signat	ure of the o	candida	te.
	Form of certificate for serving personnel									
I (No) complete	,	(Rank)		S	(Na	me)	information Armed Forces		is du	me ie to
Place: Date:						S	ignature of the	e Commano	ling Off	ficer

## **ANNEXURE.IV**



தமிழ்நாடு அரவாணிகள் நல வாரியம் சமூக நலம் மற்றும் சத்துணவு திட்டத்துறை அடையாள அட்டை

புகைப்படம்

பிறப்பு பெயர் :

அரவாணி பெயர் :

தற்போதைய முகவரி :

உறுப்பினர் கையொப்பம்

மாவட்ட சமூக நல அலுவலர்

உறுப்பினர் எண்	:		
நிரந்தர முகவரி	:		

## **ANNEUXRE.V**

(vide pa		of G.O.Ms.No.395, Perso e Individual	nal and Adı :	ministrative Reforms (Per.S) Department, dated 04.11.1993)
2.	Full Postal	Address	:	
3.	Details of J	lob held, if any	:	
4.	Particulars	of her children, if any	:	
5.	Home and	last occupation of her late	:	
	husband			
6.	Date of der	mise of her husband	:	
7.	Monetary b	penefits received after her	:	
	husband's	death by way of family per	nsion,	
	insurance,	etc., if any		
8.	Details of p	properties, if any, immovab	ole :	
	and movab	ole left behind by him.		
9.	Present mo	onthly income	:	
	a) Fı	rom Salaries / Wages		
	b) Fı	rom Family Pension		
	c) Fı	rom Private Pension		
	d) R	ents Received		
	e) Fı	rom Private Practice		
	f) O	ther sources, if any		
	g) To	otal		
10.	Whether, li	ving alone or living with he	er	
	husbandqp	parents / in-laws / parents/		
	brother (s)	?		
11.	Whether sh	ne satisfies the definition o	f	
	the term %	estitute Widow+as define	d in	
	G.O.Ms.No	o. 395, Personnel and Adm	ninistrative	
	Reforms (F	Per.S), Department, date 0	4.11.1993	
	Certified th	at, I have verified the part	iculars furn	ished by the individual and satisfied myself of her claim with
referenc	e to the defi	inition of the term %Destitut	e Widow+	
Certifica Place Date Signatur	ite Referenc	e No. :		
Jigilatai	. •	•		
			Name Designation	: : Revenue Divisional Officer/ Assistant Collector /Sub Collector
		1	NOTE	: Attestation should be done personally by the Revenue Divisional Officer/

Assistant Collector/Sub-Collector himself.

#### **ANNEXURE.VI**

FORMAT FOR NO-OBJECTION CERTIFICATE FOR APPLYING UNDER 20% DEPARTMENTAL QUOTA

## NO-OBJECTION CERTIFICATE FOR APPLYING UNDER 20% DEPARTMENTAL QUOTA IN THE RECRUITMENT OF SUB-INSPECTORS OF POLICE (TECHNICAL) 2018

Rc.N	0.	Office of the COP/	Superintendent of Police
		City/Distric	t.
		Dated :	
1.	NAME OF THE P	OLICE PERSONNEL	
	APPLYING UNDER	R DEPARTMENTAL	
	QUOTA		
2.	PRESENT RANK & I	NUMBER	
3.	PRESENT PLACE OF	WORKING	
4.	DATE OF BIRTH		
5.	DATE OF ENLISTME	NT	
6.	DATE OF COMPLETI	ION OF 5 YEARS OF	
	SERVICE		
7.	EDUCATIONAL QUA	ALIFICATION	
8.	ANY CURRENT PU	NISHMENT OTHER	
	THAN BLACK MARK	K, REPRIMAND AND	
	CENSURE? IF YES, G	IVE DETAILS	
I her	eby certify that Th	hiru/Selvi/Tmt	, is eligible to apply under 20%
depar	tmental quota as pei	r the requirement of	Adhoc Rules of Sub-Inspector of Police
(Techr	nical).		
			Signature of the Officer:
O	OFFICE SEAL		- <b>J</b>
			Name:
			Designation:
			Date:

## Annexure.VII

## List of Banks available for net banking

S1.	Name of the Bank
No.	
1.	Allahabad Bank
2.	Andhra Bank
3.	Bank of India
4.	Bank of Maharashtra
5.	Canara Bank
6.	Catholic Syrian Bank
7.	Central Bank of India
8.	City Union Bank
9.	Corporation Bank
10.	DCB Bank
11.	Dena Bank
12.	Dhanalaxmi Bank
	Federal Bank
14.	HDFC Bank
15.	ICICI Bank
16.	IDBI Bank
17.	Indian Bank
18.	Indusland Bank
19.	Jammu and Kashmir Bank
20.	Janata Sahakari Bank Ltd. Pune
21.	Karnataka Bank Ltd
22.	Karur Vysya Bank
23.	Kotak Mahindra Bank
24.	Lakshmi Vilas Bank
25.	Mehsana Urban Co. Op. Bank Ltd
26.	Oriental Bank of Commerce
27.	Punjab National Bank
28.	Punjab and Maharashtra Co-operative Bank Ltd
29.	Punjab and Sind Bank
30.	SVC
31.	Saraswat Bank
32.	South Indian Bank
33.	State Bank of India
34.	Syndicate Bank
35.	Tamilnadu Mercantile Bank
36.	UCO Bank
37.	Union Bank of India
38.	United Bnak of India
39.	Vijaya Bank
40.	YES Bank

# Annexure.VIII List of Recognised Sports Association

S1. No.	Name of the Games	Recognized by
1.	Tamil Nadu Athletics Association	Recognized by Tamil Nadu Olympic Association (TNOA), Sports Development Authority of Tamil Nadu (SDAT) and Indian Olympic Association (IOA)
2.	Tamil Nadu Basket Ball Association	Recognized by TNOA, SDAT and IOA
3.	Tamil Nadu Hand Ball Association	Recognized by TNOA, SDAT and IOA
4.	Tamil Nadu State Amateur Kabbadi Association	Recognized by TNOA and IOA
5.	Tamil Nadu Judo Association	Recognized by TNOA, SDAT and IOA
6.	Tamil Nadu Amateur Wrestling Association	Recognized by TNOA, SDAT and IOA
7.	Hockey Unit of Tamil Nadu Association	Recognized by TNOA and IOA
8.	Tamil Nadu Volley Ball Association	Recognized by TNOA and IOA
9.	Tamil Nadu Boxing Association	Recognized by TNOA and IOA
10.	Tamil Nadu Gymnastics Association	Recognized by TNOA and IOA
11.	Tamil Nadu Weightlifting Association	Recognized by TNOA and IOA
12.	Tamil Nadu Aquatics Association	Recognized by TNOA and IOA
13.	Tamil Nadu Foot Ball Association	Recognized by TNOA and IOA
14.	Equestrian (Horse riding)	Recognized by IOA
15.	Riffle Shooting	Recognized by TNOA and IOA