SUB-INSPECTOR OF POLICE (TECHNICAL) 2018|NOTIFICATION EXPLAINED

TNURB Invited for the direct recruitment to the post of SubInspector of Police (Technical). Selection for the following posts is made in via Written Exam and Interview.

Vacancies 309

Application opening date: 11.07.2018

Application Closing Date: 10.08.2018

(http://www.tnusrbonline.org/)

Examination Date : Date will be announced later

Educational Qualification:

a) a second class diploma in Electronics and Communication Engineering

or

b) A Degree (B.E/B.Tech) in Electronics and Communication engineering

(Note other graduates are not eligible even those who have Computer science and IT degree)

EXAMINATION FEE:

Rs.500/-. The payment options are online and offline through State Bank of India.

Age:

S.NO	Reservation category	Minimum Age	Maximum
1	SC/ST	20	33
2	BC/MBC/DNC/BCM	20	30
3	Destitute Widow	20	35
4	For Ex-Servicemen (Irrespective of caste)	20	45

Admission Open for TNPSC Group I & II Prelims and Mains. To join Contact 9952521550|Online Classes also Available

5	Police Departmental candidates	20	45

PHYSICAL MEASUREMENT TEST

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

For Men Height	
OC, BC, BC(M), MBC/DNC	Minimum 163 cms
SC, SC(A) and ST	Minimum 160 cms
Chest	
Normal	Minimum 80 cms
Expansion	Minimum 5 cms
WOMEN AND TRANSGENDER HEIGHT	
OC, BC, BC(M) and MBC/DNC	Minimum 154 cms
SC, SC(A) and ST	Minimum 152 cms

Examination and Marks Awarded

S.N	Tests	Marks
1	Online Computer Based Test or Written Examination a) General knowledge(60 Questions) b) Technical subjects (100 Questions)	 30 50
2	Marks for additional educational qualification	5
3	Special Marks for open candidates NCC, NSS & Sports / Games	5
	Departmental candidates National Police Duty Meet Gold, Silver and	
4	Viva Voice (Interview)	10
Total		100

Admission Open for TNPSC Group I & II Prelims and Mains. To join Contact 9952521550|Online Classes also Available

Syllabus

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.

HISTORY OF INDIA:

Dates and events of Indian History from Indus Valley Civilisation to the present day Indian modern administration.

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

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

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.

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 SYLLABUS

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.

Wish You All the Best

Iyachamy Murugan

Iyachamy Academy