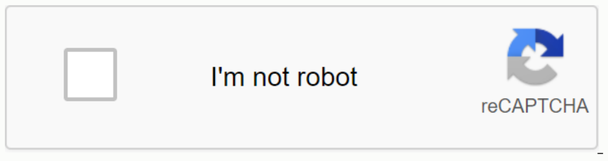

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Tslprb si syllabus 2020 pdf

Telangana Police SI Syllabus: Telangana State level Police Recruitment Board (TSLPRB) syllabus for the following posts are given below... 1. Subspective subspective subspective subspective stipendiary cadets (SCT) (Civil) (Men & Women) 2. Stipendiary Cadet Trainee (SCT) Sub Inspector of Police (AR) (Men & Women) 3. Subspective subspective police subspective (SAR CPL) (men) 4. Subspective subspective subspective subspective subspective subspective subspective police subspective (TSSP) (men) 5. Under inspector (Men) in special protection force (SPF) Department 6. Telangana State Disaster Response & Fire Services Department SYLLABUS: I. Syllabus for Preliminary Written Test (Target Type) (200 Questions): A) Arithmetic & Reasoning/Mental Ability Test (Goal Type) (100 Questions) Arithmetic: It will include questions about problems related to the numerical system, simple interest, compound interest, proportion, average, percentage, profit & loss, time & work, work & salary, time & distance, clocks & calendars, partnership, menstruation, etc. Reasoning Test: It will include questions of both verbal & nonverbal type and include question on analogies, similarities and differences, spatial visualization, spatial orientation, problem solving, analysis, judgment, decision-making, visual memory, etc.) General studies (target type) (100 questions) 1. General science – modern development of science and technology and its implications, including issues of daily observation and experience, contemporary environmental issues that can be expected from a well-educated person who has not conducted a special study of any scientific discipline. 2. Current events of national and international importance. 3. History of India – emphasis will be placed on a broad general understanding of the subject in its social, economic, cultural and political aspects. Indian National Movement. 4. Geography of India. 5. Indian politics and economy – including the country's political system, rural development, economic planning and reform in India. 6. Telangana Movement and State Formation – Telangana Idea (1948-1970), Mobilization Phase (1971-1990), towards the creation of the State of Telangana (1991-2014). II. Syllabus for the final written exam (purpose type) (200 questions): PAPER I: Arithmetic & Reasoning/Mental Ability Test (Goal Type) (200 Questions) Arithmetic: It will include questions about problems related to the numerical system, simple interest, compound interest, proportion, average, percentage, profit & loss, time & work, work & salary, time & distance, clocks & calendars, partnership, menstruation, etc. Reasoning test: It will include questions verbal & nonverbal type and include question on analogies, similarities and differences, spatial visualization, spatial orientation, problem solving, analysis, judgment, decision-making, decision making, paper II: General studies (purpose type) (200 questions) 1. General science – modern development of science and technology and its implications, including issues of daily observation and experience, contemporary environmental issues that can be expected from a well-educated person who has not conducted a special study of any scientific discipline. 2. Current events of national and international importance. 3. History of India – emphasis will be placed on a broad general understanding of the subject in its social, economic, cultural and political aspects. Indian National Movement. 4. Geography of India. 5. Indian politics and economy – including the country's political system, rural development, economic planning and reform in India. 6. Personality test (questions will be from ethics, gender sensitivity and weaker sections, social awareness, emotional intelligence). 7. Telangana Movement and State Formation – Telangana Idea (1948-1970), Mobilization Phase (1971-1990), towards the creation of Telangana State (1991-2014) PAPER III: English (Descriptive Type) English language skills, correct use and writing skills will be tested. Questions about short essay, understanding, précis, writing letters, writing paragraphs/writing reports, translating from English to Telugu, etc. PAPER IV (Descriptive type): Candidates can choose one of the languages, i.e. The option after execution will be final and the candidate will not be able to change it later. Click here to syllabus Complete Details Syllabus for the final written exam: (SI Communications) PAPER I: English (Descriptive Type) (100 Characters) Understanding the English language candidate, its correct use and its writing ability will be tested. Questions about short essay, understanding, précis, writing letters, writing paragraphs/writing reports, translating from English to Telugu etc. Reasoning Test: It will include questions of both verbal & nonverbal type and include question on analogies, similarities and differences, spatial visualization, spatial orientation, problem solving, analysis, judgment, decision-making, visual memory, etc. PAPER III: Technical document (purpose type) (200 questions) (200 characters) 1. Materials and components: Structure of electronic engineering properties, wires, semiconductors and insulators, magnetic, ferroelectric, piezoelectric, ceramic, optical and superconductive materials. Passive components and properties, resistors, capacitors and inductors; Ferrites, quartz crystal, ceramic resonators, electromagnetic and electromechanical components. 2. Physical electronics, electron devices and integrated systems: different types of diodes and their characteristics, bipolar transistors, field transistors, field transistors, power switching devices such as SKR, CTO, ICs-bipolar MOSFET bases, MOS and CMOS, Opto-Electronics basics. 3. Network theory: network analysis techniques; Network outage, transient and stable sine wave response, transmission criteria: elmore delay and growth time and other definitions, cascading effect. Network synthesis elements. 4. Electromagnetic theory: transmission lines; basic theory, standing waves, matching applications, microband lines; The basics of wave guides and resonators; Elements of antenna theory. 5. Electronic measurement and instrumentation: basic concepts, standards and error analysis; Measurements of basic quantities and electrical parameters; Electronic measuring instruments and their working principles; analogue and digital comparison, characteristics, applications. Transducers; Electronic measurements of non-electronic quantities such as temperature, pressure, humidity, etc. The basics of telemetry for industrial use. 6. Power electronics: Power Semiconductor devices, Thyristor, power transistor, MOSFET transistors Characteristics and operation, AC to DC converters; 1 – phase and 3-phase dc-dc converters, AC controllers, thyristor-controlled reactors, switchable capacitor networks, inverters; Single phase and 3-phase, pulse width modulation, sine wave modulation with uniform sampling, power supplies in switchable mode. 7. Analog electronic circuits: transistor deviation and stabilization, small signal analysis, power amplifiers, frequency response, broadband techniques, feedback amplifiers, tuned amplifiers, oscillators, rectifiers and power supplies, operational amplifiers, other linear integrated circuits and applications, pulse shaping circuits and waveforming generators. 8. Digital electronic circuits: transistors as switching element; Logical algebra; simplification of logical functions; Karnaught Map and apps; Logical IC gateways and their characteristics; IC logic families; DTL, TTL, ECL, NMOS, PMOS and CMOS gateways and compare them; Combined logical circuits; Half adder; full add-on, digital comparator; Multiplexer Demultiplexer; ROMs and their applications; Flip-flops, R-S, J-K, D and T flip-flops; Different types of meters and registers; wave generators; A/D and D/G converters; Solid-state memory. 9. Communication systems and antennas: basic information theory, modulation and detection in analog and Data sampling and reconstruction, Quantization & Encoding, multiplexing of time sharing and frequency distribution, alignment, optical communication; in free space & fiber optic; spectrum analysis, propagation of signals in HF, VHF, UHF and microwave frequencies; Satellite communication and mobile communications. Antennas, applications, mobile antennas and PCS. 10. Microwave engineering: microwaves and semiconductor devices, microwave generation and amplifiers, wave guides and other microwave components and circuits, microsube circuits, microwave antennas, microwave measurements, Masers Lasers microwave projection. Microwave communication systems - terrestrial and satellite. 11. Computer Engineering: Number Systems; Data representation, programming; Elements of high-level programming languages, the use of basic data structures, the basics of computer architecture processor design, control unit design, memory organization, I/O organization, personal computer, and their typical applications. Motherboard peripherals, accessories, Windows operating system, computer assembly and software installation, processor management, storage management, file systems, network and LAN, WAN basics, WAN protocols, network management, system administration, Internet applications. Data structures using C, basic SQL data management concepts, schema objects, C programming languages, C++, visual bases. 12. Microprocessors: Microprocessor kit-manual and simple installation, language programming, interfacing for memory and I/C, microprocessor applications in telecommunications and power supply system. 13. Television engineering: Construction of the picture pipe and the principle of operation. Deflection Camera Tubes, Basic T.V. System Scan, Sync, Composite Video Signals, Aspect Ratios, Resolution, Flicker, Photos, Wide Casting Sound in F.M., V.H.F. and U.H.F. Channels, Typical IF Video Amplifier Response, Use of Wave Traps, Video Amplifiers, Nature Video Signals. Synchronize pulses and pulses expiring in video signals by differentiating the circuit used to separate pulses. Horizontal deflection principle. The principle of video cameras, VCR. The principle of the closed-loop T.V. system. Video conferencing. 14. Radars and landing systems: Radar operating principles, radar range equation, modification of radar range equation, taking into account receiver noise and radar frequencies. Pulse radar operation, duplex and modulator function, radar signal. C.W radar principle, Doppler frequency changes, FMCW radar, FM altimeter, display systems, basic principles of MTI radar and tracking radar. Aircraft landing systems, ILS, GCA, ARSR and SRA. 15. Control systems: Transient and stable response of control systems, feedback on stability and sensitivity, root locus techniques; Frequency response analysis, reinforcement concepts Phase margins, Constant-M and Constant-N Nichol chart, Transient response approximation with closed loop frequency response, control system design, industrial compensator controllers. 16. Telephone systems: PSTN telephone network, local loops, signals and noise in telephone systems, telephone instruments, FDM, digital transmission, digital local loops, EPABX, FAX, internet telephony. GSM and CDMA telephone system. Multiplexing and many access techniques: digital subscriber line, multiplexing and frequency sharing access, time-sharing multiplexing and multiple access, distributed spectrum, multiple access code sharing. Teleconferences. Click here for Syllabus (SI Communications) Complete Details Click here for Telangana Sub Inspector of Police Eligibility Click here to get Sub Inspector of Police Selection Process Tags: Telangana Police Jobs, Telangana Police Results