

SUBORDINATE SERVICES SELECTION BOARD, PUNJAB,
FOREST COMPLEX, SECTOR-68, MOHALI

Plan of Written Examination

All the aspirants are informed as under with respect to the written test to be conducted for the recruitment of Technical Assistant :-

- (i) The Exam will be conducted in MCQ (Multiple Choice Questions) format. OMR sheets will be used for answering the questions.
- (ii) There will be negative marking. Each question carries 1 mark. **For every wrong answer, 1/4th mark would be deducted. The question(s) not attempted will receive no credit or discredit.**
- (iii) The Tentative syllabus is as follows:

Total Marks: 100

Sr. No.	Indicative Contents of Syllabus	Weightage (Approx.)
1.	<u>General Knowledge/Awareness (India & Punjab)</u> Current Affairs, History & Geography of India, its Physical Features, Climate, Demography, Its Economic and Social Development, Poverty Alleviation, Economic Planning. Knowledge related to Political and Scientific fields, Sports, Cinema and Literature etc. Important Events, Freedom and Social Movements and their Leaders of India and Punjab. Constitutional & Administrative law, its Features, Central and State Executive, Judicial System, Centre-State Relation Citizenship, Fundamental Rights & Duties of the citizens. , Major personalities in history of Punjab, Punjabi literature,folklore, performing arts and crafts.	10
2.	<u>Mental Ability:</u> Percentage, Profit and Loss, Interest, Divisibility Test, Simplification Problems, Problems on Ratio & Proportions, Time and Work, Time and Distance, Calender, Clocks, Trains, Problems on Age. Alphanumeric Series, Coding & Decoding problems, Letter & Number Series, Blood relation puzzles, Common Sense Test, problems on Alphabetical Arrangement of Words, Date and Calender problems, Sense of Direction problems, Ranking and Sitting arrangements.	10
3.	<u>Languages (English)</u> Basic Grammar, Subject and Verb, Adjectives and Adverbs, Synonyms, Antonyms, One Word Substitution, Fill in the Blanks, Problem concerning words, Comparison of Adjectives, Articles, Prepositions, Direct and Indirect Speech, Active and Passive Voice, Correction in Sentences, Gender, Singular and Plural, Idioms and their meanings, Reading comprehension, Spell Checks etc.	10
4.	<u>(ਪੰਜਾਬੀ):- ਸੁੱਧ-ਅਸੁੱਧ ਸ਼ਬਦ ਜੋੜ, ਅਗੇਤਰ ਅਤੇ ਪਿਛੇਤਰ, ਸਾਮਾਨਾਰਥਕ/ਵਿਰੋਧੀ ਸ਼ਬਦ, ਨਾਂਵ, ਪੜਨਾਂਵ ਅਤੇ ਕਿਰਿਆ ਦੀਆਂ ਕਿਸਮਾਂ ਤੇ ਸਹੀ ਵਰਤੋਂ, ਲਿੰਗ ਅਤੇ ਵਚਨ, ਪੰਜਾਬੀ ਅਖਾਣ ਤੇ ਮੁਹਾਵਰੇ, ਅੰਗਰੇਜ਼ੀ ਤੋਂ ਪੰਜਾਬੀ ਅਨੁਵਾਦ ਅਤੇ ਬਹੁਤੇ ਸ਼ਬਦਾਂ ਦੀ ਥਾਂ ਇੱਕ ਸ਼ਬਦ ਆਦਿ।</u>	10
5.	<u>Information Technology</u> Basics of Computers, Working of Mobile Phones and personal digital Gadgets, Wireless Technology including 3G, 4G, 5G, Wi-Fi and Bluetooth, Radio Frequencies & Signal Propagation, Use of hotspots, Fundamentals of Computers and Networks, Malware, Concepts related to GPS, Geo-fencing, Fingerprinting, CDR Analysis, Understanding emails/SMS/messengers & tracing, Use of Office Productivity Tools such as MS Word, PowerPoint, spreadsheets, Database Management.	10
6.	<u>Agriculture, Botany, Zoology, Bio-Chemistry and Chemistry:</u> 1. Technologies for improved cultural practices for Kharif and Rabi Crops, vegetables and fruits of Punjab from seeding to seed i.e grain maturation;	10

	<p>Field preparation, sowing methods, time of sowing, etc.; Efficient management practices for fertilizer application, irrigation, weed control, nutrient recycling, mulches, and crop residue management; crop rotation, multiple cropping, mixed cropping, intercropping; Cultivation of cash crops; Integrated disease and pest management in Kharif and Rabi crops, vegetables and fruits of Punjab; Breeding approaches for self pollinated, cross pollinated and vegetatively propagated crops; Nutrient deficiency symptoms in plants; Problematic soils and their management climate change and agriculture.</p>	
	<p>2. Morphology and life history of important genera of Kingdom Plantae; Anatomy, embryology and systematics of angiosperms; Plant metabolism; Growth and development; Abiotic stress in plants; Cell structure and division; Ecosystem and Biodiversity conservation; Pollution; Bioindicators.</p>	10
	<p>3. Animal classification and biosystematics; Comparative anatomy and physiology of invertebrates and vertebrates; Various aspects of development biology; Evolution, animal behaviour and ecology; pests and their management; Principles of inheritance; Gene interactions and regulation; mutations; Genetic engineering and Biotechnology; Genetic disorders.</p>	10
	<p>4. Structure and function of biomolecules; Enzymes general mechanism of action, classification, kinetics and regulation; Bioenergetics and respiratory chain; intermediary metabolism and major pathways; Role of vitamins; Principles of analytical techniques in biochemistry.</p>	10
	<p>5. Chemical bonding; Chemistry of s,p,d and f block elements; Electronic spectra and magnetic properties of transition metal complexes; Classification and structure of polymers; Coordination compounds; Non aqueous solvents; Bioinorganic Chemistry; Quantum mechanics; Electrochemistry; Thermodynamics; Colloids; Colligative Properties; Phase equilibrium; Photochemistry; Arenes and aromaticity; Preparation and properties of Alkyl Halides, Carboxylic acids, alcohols, phenols, aldehydes, ketones and amines; Stereochemistry.</p>	10

- Note:-
- 1) The distribution of marks/question in each section is indicative. It may vary slightly.
 - 2) The syllabus is broadly classified as above but may vary to some extent.

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Secretary

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