

Indicative Syllabus for CBT Test:

A. For the post of Technician Field/Lab Research (Pay level-3)

(i) Basic Science :

Chemistry

Some basic concepts of Chemistry, Structure of atom, Classification of elements and Periodicity in properties, Chemical bonding and Molecular structure, States of matter: Solid, Liquid and Gas, Thermodynamics, Equilibrium, Redox reactions, Hydrogen, s-Block elements (Alkali and Alkaline earth metals), Group 13 and 14 p-Block elements, Organic chemistry-some basic principles and techniques, Hydrocarbons, Environmental Chemistry.

Solid state, Solutions, Electrochemistry, Chemical kinetics, Surface chemistry, General principles and processes of isolation of elements, Group 15, 16, 17 & 18 p-Block elements, d and f Block elements, Coordination compounds, Haloalkanes and Haloarenes, Alcohols, Phenols and Ethers, Aldehydes, Ketones and Carboxylic acids, Organic compounds containing Nitrogen, Biomolecules (Carbohydrates, Proteins, Hormones, Vitamins, Nucleic acids), Polymers, Chemistry in everyday life (Chemicals in medicines, Chemicals in food, Cleansing agents).

Physics

Physical world and measurement, Kinematics, Laws of motion, Work, Energy and Power, Motion of system of particles and rigid body, Gravitation, Properties of bulk matter; Thermodynamics, Behaviour of perfect gas and Kinetic theory, Oscillations and Waves Electrostatics, Current electricity, Magnetic effect of current & magnetism, Electromagnetic induction and alternating current, Electromagnetic waves, Optics, Dual nature of Light, Atoms & nuclei, Electronic devices, Communication systems.

Biology

Diversity in living world, Structural organizations in Animals and Plants, Cell structure and function, Plant physiology (Transport in plants, Mineral nutrition, Photosynthesis, Respiration, Plant growth and development), Human physiology (Digestion and absorption, Breathing and Respiration, Body fluids and circulation, Excretory products and their elimination, Locomotion and Movement, Neural control and coordination, Chemical coordination and regulation).

(ii) Arithmetic :

The questions will be designed to test the ability of appropriate use of numbers and number sense of the candidate. The part will include questions on problems relating to number system, computation of whole numbers, decimals and fractions, relationships between numbers, fundamental arithmetical operations, percentage, ratio and proportion, average, interest, profit and loss, discount, use of tables and graphs, mensuration, time and distance etc.

(iii) Mental Ability and Reasoning :

It would include questions of both verbal and non-verbal type. The test will include questions on Semantic analogy, Symbolic operations, Symbolic/Number analogy, Trends, Figural analogy, Space orientation, Semantic classification, Venn diagrams, Symbolic/Number classification, Drawing inferences, Figural classification, Punched hole/Pattern-folding and unfolding, Semantic series, Figural pattern-folding and Completion, number services, Embedded figures, Figural series, Critical thinking, Problem solving, Emotional intelligence, Word building, Social intelligence, Coding and decoding.

(iv) General Awareness :

Questions are designed to test the candidate's general awareness of the environment around him and its application to society. Questions are also designed to test knowledge of current events and of such matters of everyday observations and experience in their scientific aspect as may be expected of an educated person. The test will also include questions relating to India and its neighbouring countries especially pertaining to History, Culture, Geography, Economic Scene, General Policy, General Science and Scientific Research.

(v) General English :

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Spot the error, Fill in the blanks, Synonyms/Homonyms, Antonyms, Spelling/Detecting mis-spelt words, Idioms & Phrases, One word substitution, Improvement of sentences, Active/Passive voice of verbs, Conversion into Direct/Indirect narration, Shuffling of Sentence parts, Shuffling of Sentences in a passage, Cloze Passage, Comprehension Passage.

B. For the post of Technician Maintenance (Pay level-2)

(i) Relevant Field

a. Information Technology:

Computer Organisation: Fundamentals of Computer and its use, Components of computer Block diagram of computer, function of various components of computer and CPU, storage devices used in computer, SSD vs. HDD, memory units, Operating System and its functions, types of operating system, Hardware and software in computers.

Introduction to WWW : Protocols and programs, secure connections, application and development tools, the web browser, server, Web Design: Web site design principles, planning the site and navigation, working knowledge of social media sites.

Introduction to HTML : The development process, Html tags and simple HTML forms, web site structure Introduction to XHTML : XML, Move to XHTML, Meta tags, Character entities, frames and frame sets, inside browser.

Style sheets : Need for CSS, introduction to CSS, basic syntax and structure, using CSS, background images, colors and properties, manipulating texts, using fonts, borders and boxes, margins, padding lists, positioning using CSS, CSS2.

PHP : Starting to script on server side, Arrays, function and forms, advance PHP

Databases : Basic command with PHP examples, Connection to server, creating database, selecting a database, listing database, listing table names creating a table, inserting data, altering tables, queries, deleting database, deleting data and tables, PHP my admin and database bugs.

Database Management system: Database and its purpose, Components of a table, Relational Database Model, Terminology (Relation, Tuple, Attribute, Cardinality), Keys (Primary, Candidate, Alternate, Foreign), MYSQL AND DML Commands.

Networking and Internet: Need and benefits of networking, Components of a network, sender, receive, message, channel, Transmission Medium (wired and wireless), Types of Networking (LAN, MAN, WAN, PAN, VAN), Introduction and use of Internet Digital Literacy, Internet Devices: Repeater, Hub, Switch, Gateway, Bridge, Router, Data Transfer Rate (bps, Kbps, KBps, Mbps, MBPS, Gbps, GBPS) Network safety concerns: (Digital Footprints, Threats, Virus, Worm, Trojan Horse, Spam, Malware, DoS Attacks, Eavesdropping, Adware, Spyware, Snooping), Cyber Crime (Phishing, Pharming, Spoofing, Cyber Bullying, Hacking, Cracking, Identity Theft, Cyber Stalking, Cyber Trolling).

b. Electronics Mechanic:

Hand Tools and their uses- Identification, specifications, uses and maintenance of commonly used hand tools. Riveting of tags and lugs, cutting and bending of sheet metals, chassis and cabinets.

AC and Electrical Cables- electric charges, Potential difference, Voltage, Current, Resistance. Basics of AC & DC. Terms such as +ve cycle, -ve cycle, Frequency, Time period, RMS, Peak, P-P, Instantaneous value. Single phase and Three phase supply. Terms like Line and Phase voltage/ currents. Insulators, conductors and semiconductor properties. Different type of electrical cables and their Specifications. Types of wires & cables, standard wire gauge(SWG). Classification of cables according to gauge(core size), number of conductors, material, insulation strength, flexibility etc.

Cells and Batteries, Resistance, Capacitors, Electromagnetism, Transformers and its types

AC & DC measurements- electrical measuring instruments, Importance of meter, classification of meters, forces necessary to work a meter. MC and MI meter,

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range extension, need of calibration, characteristics of meters and errors in meters. Multi meter, use of meters in different circuits. Care and maintenance of meters. Use of CRO, Function generator, LCR meter

Soldering & De-soldering and switches,- Different types of soldering guns, related to Temperature and wattages, types of tips. Solder materials and their grading. Use of flux and other materials. Selection of a soldering gun for specific requirement. Soldering and De-soldering stations and their specifications. Different switches and their specification, uses,

Rectifiers- Semiconductor component number coding for different electronic components such as Diodes, Zeners. PN Junction, Forward and Reverse biasing of diodes, Interpretation of diode specifications Forward current and Reverse voltage, packing styles of diodes. Diode Bridge Modules. Rectifier configurations, their efficiencies, Filter components and their role in reducing ripple. Working principles of Zener diode / specifications / applications, Varactor diode / Tunnel diode/ specifications with applications.

IC Regulators- Regulated Power supply using 78XX series, 79XX series, Op-amp regulator, 723 regulator , (Transistorized & IC based) voltage regulation, error correction and amplification etc.

c. **Pump Operator-Cum-Mechanic:**

Fundamentals of Electricity- Voltage, Current, resistance, Energy, Power. Electrostatics and Electromagnetism- laws. Electric Flux, Potential Difference, Potential, Permittivity, Permeability, Capacitors, Coulumb's Law, Faraday's Law, Magnetic Flux, Self-inductance, Fleming's law, etc. Fundamentals of AC systems- Generation, Equation of Voltage, amplitude, frequency, cycle, time period, Inductance, and Capacitance. Star and Delta connections. Direct Current Machines- DC generator. Alternate Current- Transformers- its construction, types, principle. emf equation, transformation ratio, efficiency, and losses. Three-phase induction motor- principle, types, construction, slip. losses. torque, three-phase motor starters. Alternators, Three-phase synchronous motor, single-phase, and FHP single phase induction motor, AC series motor, Servomotor, Universal Motor, Split-phase, and Stepper motors. Automobile- Engines- introduction, description of internal combustion, classification of IC engines, 2 and 4 stroke engines. Diesel Engine components, cooling systems, Lubricating systems, splash and pressure systems, Intake and exhaust systems. Air cleaners- description and functions, different types of air cleaners. Extraction mufflers. Diesel fuel system, Injection pump, Emission control, Braking systems. Charging circuit operation of alternators, regulator unit, ignition warning, remedy in charging system descriptions. Steering systems, Clutch, Manual Transmissions, rear-wheel drive, Suspension systems.

(ii) **Arithmetic:**

The questions will be designed to test the ability of appropriate use of numbers and number sense of the candidate. The part will include questions on problems relating to number system, computation of whole numbers, decimals and fractions, relationships between numbers, fundamental arithmetical operations, percentage, ratio and proportion, average, interest, profit and loss, discount, use of tables and graphs, mensuration, time and distance etc.

(iii) **Mental Ability and Reasoning :**

It would include questions of non-verbal type. The test will include questions on similarities and differences, space visualization, problem solving, analysis, judgment, decision making, visual memory, discriminating observation, relationship concepts, figure classification, arithmetical number series, non-verbal series etc. The test will also include questions designed to test the candidate's abilities to deal with abstract ideas and symbols and their relationship, arithmetical computation and other analytical functions.

(iv) **General Awareness :**

Questions are designed to test the candidate's general awareness of the environment around him and its application to society. Questions are also designed to test knowledge of current event and of such matters of everyday observations and experience in their scientific aspect as may be expected of an educated person. The test will also include

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- questions relating to India and its neighbouring countries especially pertaining to History, Culture, Geography, Economic Scene, General Policy, General Science and Scientific Research.
- (v) **General English:**
Candidate's understanding of the Basics of English Language, its vocabulary, grammar, sentence structure, synonyms, antonyms and its correct usage etc. and writing ability would be tested.

C. For the post of Technical Assistant (Para-medical) (Pay level-5)

(i) Relevant Field:

a. Staff Nurse

Anatomy, physiology, Nutrition, Biochemistry, Nursing foundations, Psychology, Microbiology, Sociology, Pharmacology, Pathology, Genetics, Medical-Surgical Nursing, (Adult including Geriatrics)-1, community Health Nursing, Child Health Nursing, Mental Health Nursing, Midwifery and Obstetrical Nursing, Nursing Research & Statistics, Management of Nursing Services and Education.

b. Pharmacist:

Human Anatomy and Physiology, Pharmaceutical Analysis, Pharmaceutics, Pharmaceutical inorganic Chemistry, Remedial Biology/Remedial Mathematics, Pharmaceutical Organic Chemistry, Biochemistry, Pathophysiology, Computer Applications in Pharmacy, Environmental sciences, Physical Pharmaceutics, Pharmaceutical Microbiology, Pharmaceutical Engineering, Medicinal Chemistry, Pharmacology, Pharmacognosy and Phytochemistry, Industrial Pharmacy, Pharmaceutical Jurisprudence, Herbal Drug Technology, Biopharmaceutics and Pharmacokinetics, Pharmaceutical Biotechnology, Quality Assurance, Instrumental Methods of Analysis, Pharmacy Practice, Novel Drug Delivery System, Biostatistics and Research Methodology, Social and Preventive Pharmacy, Pharma Marketing Management, Pharmaceutical Regulatory Science, Pharmacovigilance, Quality control and Standardization of Herbs, Computer Aided Drug Design, Cell and Molecular Biology, Cosmetic Science, Experimental Pharmacology, Advanced Instrumentation Techniques, Dietary Supplements and Nutraceuticals.

c. Physiotherapist:

Psychology & Sociology, Anatomy, Physiology, Applied Physiology, Basic and Applied Physics for Physiotherapy, Basic Nursing & First Aid, Orientation to Physiotherapy, General Medicine/General Surgery/Paediatrics/Geriatrics, Biomechanics, Applied Anatomy & Kinesiology, Exercise Therapy, Microbiology and Pathology, Electrotherapy (low & medium frequency), Electrotherapy (high freq & Actinotherapy), Community Medicine, Clinical Orthopedics, Clinical Cardio-Respiratory Diseases, Bio Statistics & Research methodology, Physical Modalities Maintenance, PT in Orthopaedics, PT in Neurology, PT in Cardio Respiratory Conditions, Rehabilitation Medicine, Advanced Physiotherapeutics, Physical Education.

d. Lab Technician:

Anatomy, Physiology, Biochemistry, Fundamentals of Medical Laboratory Technology, Microbiology, Clinical biochemistry, Pathology & Histopathology, Haematology and blood and bank.

e. Radiographer:

Human Anatomy & Physiology, Radiology Physics, General Physics, Radiation Physics & Physics of Diagnostic Radiology, X-Ray Machines & Accessories, Maintenance, X-ray Film/Image processing Techniques (Dark Room Techniques), Clinical Radiography-Positioning, Medical Ethics and patient care, Principals of Medical Emergencies, Equipments, Techniques of modern Imaging Modalities, Contrast & Special Radiography procedures, Quality Control at Radiology & Radiation Safety.

(ii) Arithmetic:

The questions will be designed to test the ability of appropriate use of numbers and number sense of the candidate. The part will include questions on problems relating to

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number system, computation of whole numbers, decimals and fractions, relationships between numbers, fundamental arithmetical operations, percentage, ratio and proportion, average, interest, profit and loss, discount, use of tables and graphs, mensuration time and distance ratio and time etc.

(iii) General Awareness & Reasoning:

Questions in this component will be aimed at testing the candidates's general awareness of the environment around him and its application to society. Questions will also be designed to test knowledge of current events and of such matters of everyday observation and experience in their scientific aspects as may be expected form an educated person. The test will also include questions relating to India and its neighboring countries especially pertaining to history, culture, geography, economic scene, general policy and scientific research etc. These questions will be such that they do not require a special study of any discipline.

Questions of reasoning would include question of both verbal and non-verbal type. This component will include questions of analogies, similarities and differences, spatial visualization, spatial orientation, problem solving, analysis, judgment, decision making, visual memory, discrimination, observation, relationship concepts, arithmetic reasoning, verbal and figure classification, arithmetical number series, non-verbal series, decoding and decoding, statement, conclusion, syllogistic reasoning etc.

(iv) English & General Science:

Questions in this component will be designed to test the candidates understanding and knowledge of English language and will be based on spot the error. Fill in the blanks, synonyms, antonyms, spelling/detecting misspelled words, idioms & phrases, One word substitution, improvement of sentences, Active/passive Voice of Verbs, conversion into direct/indirect narration, comprehension passage etc.

Chemistry

Some basic concepts of Chemistry, Structure of atom, Classification of elements and Periodicity in properties, Chemical bonding and Molecular structure, States of matter: Solid, Liquid and Gas, Thermodynamics, Equilibrium, Redox reactions, Hydrogen, s-Block elements (Alkali and Alkaline earth metals), Group 13 and 14 p-Block elements, Organic chemistry-some basic principles and techniques, Hydrocarbons, Environmental Chemistry. Solid state, Solutions, Electrochemistry, Chemical kinetics, Surface chemistry, General principles and processes of isolation of elements, Group 15,16,17 & 18 p-Block elements, d and f Block elements, Coordination compounds, Haloalkanes and Haloarenes, Alcohols, Phenols and Ethers, Aldehydes, Ketones and Carboxylic acids, Organic compounds containing Nitrogen, Biomolecules (Carbohydrates, Proteins, Hormones, Vitamins, Nucleic acids), Polymers, Chemistry in everyday life (Chemicals in medicines, Chemicals in food, Cleansing agents).

Physics

Physical world and measurement, Kinematics, Laws of motion, Work, Energy and Power, Motion of system of particles and rigid body, Gravitation, Properties of bulk matter; Thermodynamics, Behaviour of perfect gas and Kinetic theory, Oscillations and Waves Electrostatics, Current electricity, Magnetic effect of current & magnetism, Electromagnetic induction and alternating current, Electromagnetic waves, Optics, Dual nature of Light, Atoms & nuclei, Electronic devices, Communication systems.

Biology

Diversity in living world, Structural organizations in Animals and Plants, Cell structure and function, Plant physiology (Transport in plants, Mineral nutrition, Photosynthesis, Respiration, Plant growth and development), Human physiology (Digestion and absorption, Breathing and Respiration, Body fluids and circulation, Excretory products and their elimination, Locomotion and Movement, Neural control and coordination, Chemical coordination and regulation).

D. For the post of Lower Division Clerk (Pay level-2):

(i) Quantitative Aptitude:

Probability, Time and Distance, Quadratic Equations, Odd one out, Races and Games, Numbers and Ages, Averages, Mensurations, Profit and Loss, Problems on Numbers, Pipes and Cisterns, Indices and Surds, Simple Equations, Permutation and Combination,

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Simple & Compound Interest, Boat and Streams, Simplifications and Approximations, Mixture and Allegations, LCM & HCF, Time & Work, Problems on Trains, Ratio and Proportion, Areas, Volumes and Percentage etc.

(ii) English Language:

Antonyms, Synonyms, Active and Passive Voice, Substitution, Sentence Improvement, Spelling Test, Passage Completion, Idioms and Phrases, Transformation, Prepositions, Fill in the Blanks, Spotting Errors, Para completion, Joining Sentences etc.

(iii) General Awareness:

Indian History, Indian Culture & Heritage, Current Events-National & International, Indian Polity, Indian Constitution, General Science & Technology, Indian Geography, IT & Space, Indian Economy etc.

(iv) General Intelligence:

Analogies, Similarities and differences, Space Visualization, Spatial orientation, Problem-solving, Analyst, Judgment, Decision making, Visual memory, Discrimination, Observation, Relationship concepts, Arithmetical reasoning and figural classification, Arithmetical number series, Non-verbal series, coding and decoding, syllogistic reasoning, clocks, Odd one out, Symbolic/Number classification, letter series, shapes and mirrors, Venn Diagrams etc.

E. For the post of Forest Guard (Pay level-2):

(i) Basic Science related to Forestry:

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. Elements and Compounds, Acids, Bases, Salts, Petroleum Products, Fertilizers, Pesticides, Soil types of India. Classification of Plants, Evolution, Genetics, Physiology, Nutrition, Health and Hygiene. Environment and Ecology, Biodiversity and Conservation, Environmental issues, Environmental conventions, Biogeochemical cycles. Forest Types of India, Wildlife Parks and Sanctuary, Ramsar sites, Wetlands, Non timber Forest product derived from forests.

(ii) Arithmetic & Reasoning

Probability, Time and Distance, Quadratic Equations, Odd one out, Races and Games, Numbers and Ages, Averages, Mensurations, Profit and Loss, Problems on Numbers, Pipes and Cisterns, Indices and Surds, Simple Equations, Permutation and Combination, Simple & Compound Interest, Boat and Streams, Simplifications and Approximations, Mixture and Allegations, LCM & HCF, Time & Work, Problems on Trains, Ratio and Proportion, Areas, Volumes and Percentage etc.

Analogies, Similarities and differences, Space Visualization, Spatial orientation, Problem-solving, Analyst, Judgment, Decision making, Visual memory, Discrimination, Observation, Relationship concepts, Arithmetical reasoning and figural classification, Arithmetical number series, Non-verbal series, coding and decoding, syllogistic reasoning, clocks, Odd one out, Symbolic/Number classification, letter series, shapes and mirrors, Venn Diagrams etc.

(iii) General Awareness

Indian History, Indian Culture & Heritage, Current Events-National & International, Indian Polity, Indian Constitution, General Science & Technology, Indian Geography, IT & Space, Indian Economy etc.

(iv) English

Antonyms, Synonyms, Active and Passive Voice, Substitution, Sentence Improvement, Spelling Test, Passage Completion, Idioms and Phrases, Transformation, Prepositions, Fill in the Blanks, Spotting Errors, Para completion, Joining Sentences etc.

F. For the post of Steno Grade-II (Pay level-4):

(i) English Language Comprehension:

In addition to the testing of candidates' understanding of the English Language, its vocabulary, grammar, sentence structure, synonyms, antonyms and its correct usage, etc. his/her writing ability, would also be tested.

(ii) General Intelligence & Reasoning:

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It would include questions of both verbal and non-verbal type. The test will include questions on analogies, similarities and differences, space visualization, problem solving, analysis, judgment, decision making, visual memory, discriminating observation, relationship concepts, arithmetical reasoning, verbal and figure classification, arithmetical number series, non-verbal series etc. The test will also include questions designed to test the candidate's abilities to deal with abstract ideas and symbols and their relationship, arithmetical computation and other analytical functions.

(iii) General Awareness:

Questions will be designed to test the ability of the candidate's general awareness of the environment around him and its application to society. Questions will also be designed to test knowledge of current events and of such matters of everybody observation and experience in their scientific aspects as may be expected of an educated person. The test will also include questions relating to India and its Neighbouring countries especially pertaining to Sports, History, Culture, Geography, Economic scene, General Polity including Indian Constitution, and Scientific Research etc. These questions will be such that they do not require a special study of any discipline.

G. For the post of Store Keeper (Pay level-3)

(i) Quantitative Aptitude:

Probability, Time and Distance, Quadratic Equations, Odd one out, Races and Games, Numbers and Ages, Averages, Mensurations, Profit and Loss, Problems on Numbers, Pipes and Cisterns, Indices and Surds, Simple Equations, Permutation and Combination, Simple & Compound Interest, Boat and Streams, Simplifications and Approximations, Mixture and Allegations, LCM & HCF, Time & Work, Problems on Trains, Ratio and Proportion, Areas, Volumes and Percentage etc.

(ii) General Awareness:

Indian History, Indian Culture & Heritage, Current Events-National & International, Indian Polity, Indian Constitution, General Science & Technology, Indian Geography, IT & Space, Indian Economy etc.

(iii) General Intelligence:

Analogies, Similarities and differences, Space Visualization, Spatial orientation, Problem-solving, Analyst, Judgment, Decision making, Visual memory, Discrimination, Observation, Relationship concepts, Arithmetical reasoning and figural classification, Arithmetical number series, Non-verbal series, coding and decoding, syllogistic reasoning, clocks, Odd one out, Symbolic/Number classification, letter series, shapes and mirrors, Venn Diagrams etc.

(iv) English Language:

Antonyms, Synonyms, Active and Passive Voice, Substitution, Sentence Improvement, Spelling Test, Passage Completion, Idioms and Phrases, Transformation, Prepositions, Fill in the Blanks, Spotting Errors, Para completion, Joining Sentences etc.

H. For the post of Driver Ordinary Grade (Pay level-2)

(i) Relevant Field:

Road sense (traffic rules/ signals, road marking etc.), Various sections of Motor Vehicles Act, 1939, Knowledge of vehicle parts, Licensing of drivers of motor vehicles, Registration of motor vehicles, Insurance of vehicles, Offence, penalties and procedure, Knowledge related to toolkit, Security and maintenance of vehicles, Accidental claims. GPS related knowledge, Mechanical vehicles vis-a-vis electrical vehicles, Identification of defects, Carryout minor repairs handled by drivers, Changing of wheels, Inflation of wheels correctly, Synchro Clutch & Accelerator, Control of Vehicle & Steering Reversing

(ii) General Awareness:

Indian History, Indian Culture & Heritage, Current Events-National & International, Indian Polity, Indian Constitution, General Science & Technology, Indian Geography, IT & Space, Indian Economy etc.

(iii) Mental Ability & Reasoning:

Analogies, Similarities and differences, Space Visualization, Spatial orientation, Problem-solving, Analyst, Judgment, Decision making, Visual memory, Discrimination,

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Observation, Relationship concepts, Arithmetical reasoning and figural classification, Arithmetical number series, Non-verbal series, coding and decoding, syllogistic reasoning, clocks, Odd one out, Symbolic/Number classification, letter series, shapes and mirrors, Venn Diagrams etc.

(iv) General English:

Antonyms, Synonyms, Active and Passive Voice, Substitution, Sentence Improvement, Spelling Test, Passage Completion, Idioms and Phrases, Transformation, Prepositions, Fill in the Blanks, Spotting Errors, Para completion, Joining Sentences etc.

(v) Arithmetic:

Probability, Time and Distance, Quadratic Equations, Odd one out, Races and Games, Numbers and Ages, Averages, Mensurations, Profit and Loss, Problems on Numbers, Pipes and Cisterns, Indices and Surds, Simple Equations, Permutation and Combination, Simple & Compound Interest, Boat and Streams, Simplifications and Approximations, Mixture and Allegations, LCM & HCF, Time & Work, Problems on Trains, Ratio and Proportion, Areas, Volumes and Percentage etc.

I. For the post of Multi Tasking Staff (MTS) (Pay level-1)

(i) Numerical Aptitude:

This paper will include questions on problems relating to Number Systems, Computation of Whole Numbers, Decimals and Fractions and relationship between Numbers, Fundamental arithmetical operations, Percentages, Ratio and Proportion, Averages, interest, Profit and Loss, Discount, use of Tables and Graphs, Mensuration, Time and Distance, Ratio and Time, Time and Work, etc.

(ii) General Awareness:

Questions will be designed to test the ability of the candidate's general awareness of the environment around him and its application to society. Questions will also be designed to test knowledge of current events and of such matters of everyday observation and experience in their scientific aspects as may be expected of an educated person. The test will also include questions relating to India and its neighboring countries especially pertaining to Sports, History, Culture, Geography, Economic science, General Polity including Indian Constitution, and Scientific Research etc. These questions will be such that they do not require a special study of any discipline.

(iii) General Intelligence & Reasoning:

It would include questions of non-verbal type. The test will include questions on similarities and differences, space visualization, problem solving, analysis, judgment, decision making, visual memory, discriminating observation, relationship concepts, figure classification, arithmetical number series, non-verbal series etc. The test will also include questions designed to test the candidate's abilities to deal with abstract ideas and symbols and their relationship, arithmetical computation and other analytical functions.

(iv) General English:

Candidate's understanding of the Basics of English Language, its vocabulary, grammar, sentence structure, synonyms, antonyms and its correct usage, etc. and writing ability would be tested.