

ANNEXURE

SYLLABUS & BLUEPRINT FOR CBT OF TECHNICAL CADRE

Sl. No.	Name of the post	CBT Section(s)	Number of Questions	Max Marks	Duration (hours)
1	Technical Assistant	TA (Electrical): Subject – Electrical Engineering, Bachelor Degree/Diploma Level	40	40	2 (two)
		TA (MLT): Subject – Medical Lab Technology, Bachelor Degree/Diploma Level			
		TA (Veterinary Science): Subject – Veterinary Science, Bachelor Degree level.			
		TA (Radiology): Subject – Radiology/Radiography, Bachelor Degree Level.			
		TA (Statistics): Subject – B.Sc. Statistics Level.			
		Logical Reasoning & Quantitative aptitude	20	20	
		General Knowledge	20	20	
		Computer Skills	10	10	
		ICMR	10	10	
2.	Laboratory Attendant – 1	LA (Electrical Support) : Subject – I.T.I. Electrical Level	40	40	2 (two)
		LA (Laboratory Support): Subject – 10 th Class Level			
		Logical Reasoning & Quantitative Aptitude	20	20	
		General Knowledge	20	20	
		Computer Skills	10	10	
		ICMR	10	10	

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Marking Scheme: 1 mark for each correct answer and 0 mark for unattended & incorrect answer.

Subject / Specialization: The questions will be designed to test the ability of candidate in the technical subject. The questions will be technical & scientific in nature depending on the specialization & level of the post demanded.

Logical Reasoning & Quantitative Aptitude: It would include questions of both verbal and non-verbal type. This component may include questions on analogies, similarities and differences, space visualization, spatial orientation, problem solving, analysis, judgment, decision making, visual memory, discrimination, observation, relationship concepts, arithmetical reasoning and figural classification, arithmetic number series, non-verbal series, coding and decoding, statement conclusion, syllogistic reasoning etc. The topics are, Semantic Analogy, Symbolic/Number Analogy, Figural Analogy, Semantic Classification, Symbolic/Number Classification, Figural Classification, Semantic Series, Number Series, Figural Series, Problem

Solving, Word Building, Coding & de-coding, Numerical Operations, symbolic Operations, Trends, Space Orientation, Space Visualization, Venn Diagrams, Drawing inferences, Punched hole/ pattern - folding & un-folding, Figural Pattern - folding and completion, Indexing, Address matching, Date & city matching, Classification of centre codes/ roll numbers, Small & Capital letters/ numbers coding, decoding and classification, Embedded Figures, Critical thinking, Emotional Intelligence, Social Intelligence, Other sub- topics, if any. The questions will be designed to test the ability of appropriate use of numbers and number sense of the candidate. The scope of the test will be computation of whole numbers, decimals, fractions and relationships between numbers, Percentage, Ratio & Proportion, Square roots, Averages, Interest, Profit and Loss, Discount, Partnership Business, Mixture and Alligation, Time and distance, Time & Work, Basic algebraic identities of School Algebra & Elementary surds, Graphs of Linear Equations, Triangle and its various kinds of centers, Congruence and similarity of triangles, Circle and its chords, tangents, angles subtended by chords of a circle, common tangents to two or more circles, Triangle, Quadrilaterals, Regular Polygons, Circle, Right Prism, Right Circular Cone, Right Circular Cylinder, Sphere, Hemispheres, Rectangular Parallelepiped, Regular Right Pyramid with triangular or square base, Trigonometric ratio, Degree and Radian Measures, Standard Identities, Complementary angles, Heights and Distances, Histogram, Frequency polygon, Bar diagram & Pie chart.

General Knowledge:

A. General Ability: -

- ✓ General Knowledge, current Affairs, Logical reasoning, and analytical ability; English like Comprehensions & choosing the correct word, Decision making and problem-solving; General mental ability; Numeric ability; Data analysis, interpretation & Reasoning.
- ✓ Current Affairs/ Events of National and International importance.

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- ✓ Politics: PM, President, minister and ministry, center and state governance, election procedure, UN agency, G20 & its presidency,

B. Art and Indian Culture: –

- ✓ Indian Paintings, Dance forms in India, Music, Puppetry, Pottery, Drama/ Theatre
- ✓ Sports and films.

C. History & Geography: -

- ✓ Distribution of Key Natural Resources like river, mountains, water bodies, ice-caps etc. across the world (including South Asia and the Indian sub-continent);
- ✓ Geophysical Phenomena such as earthquakes, Tsunami, Volcanic activity, cyclone etc.,
- ✓ Physical Geography- Origin and Evolution of Earth; Interior of the Earth; Distribution of continents and Oceans.
- ✓ Location of cities, State and its capital, highways etc.
- ✓ Mughal period, British Era
- ✓ History of Medical Research
- ✓ Institutes like CRI, Kasauli, IRFA, Plague laboratory, National Nutrition Laboratory

Computer Skills:

- Introduction, Characteristics of computers, Evolution of computers, Generation of Computers
- Classification of Computers, The Computer System, Applications of Computers
- Input / Output devices and Memory
- Introduction, Keyboard, Pointing Devices, Speech Recognition, Digital Camera, Scanners
- Optical Scanners. Classification of Output, Printers, Plotters, Computer Output Microfilm (COM)
- Monitors, Audio Output, Projectors. Random Access Memory (RAM), Read Only Memory (ROM)
- Types of ROM. Classification of Secondary Storage Devices, Magnetic Tape, Magnetic Disk
- Optical Disk, Magneto Optical disk
- MS-Office (MS-Word, MS-Excel, MS-Power Point)
- Net Surfing, Internet Services, Case Study, Intranet

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ICMR:

- History of ICMR
- Leadership of ICMR
- Institutes and its Location
- Mandate, scope
- IJMR- Indian journal of medical research
- About Going Viral Book
- Landmark achievements in past
- Fellowships Programs by ICMR
- Outbreak investigations
- Test tube baby landmark achievement
- Covid-19 related information
- ICMR Health Communication Ecosystem
- Major work of ICMR Institutes
- DG/ Directors of ICMR

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