

## DRDO CEPTAM Exam Pattern

### Senior Technical Assistant B

Tier	Mode/ Type Of Examination	Scope of Examination	Number Of Questions	Total Marks	Time Duration	Exam Type
1	CBT for Screening	Quantitative ability/ Aptitude, General Intelligence & Reasoning ability, General awareness, English language (basic knowledge), General Science	120	120	90 Minutes	Objective
2	CBT for Provisional Selection	Test specific to the subject of post-code	100	100	90 Minutes	

### Technician A

Tier	Mod Of Exam	Sections	Subjects	Number Of Questions	Total Marks	Time Duration	Exam Type
1	CBT (Provisional Selection)	Section A	Quantitative ability/ Aptitude	40	120	90 Minutes	Objective
			General intelligence & Reasoning Ability				
			General Awareness				
			English language (basic knowledge)				
		Section B	Specific to trade/ discipline of post-code	80			

- 2 Trade Test Specific to trade/ discipline of post-  
(Qualifying code (Trade test will be of ITI level The Trade test may be of about one to two  
in in the related trade to test the hours duration.  
nature) practical skills of the candidates)

## DRDO CEPTAM Syllabus Topic Wise

### English

- Synonyms
- Antonyms
- Adverb
- Unseen passages
- Error Correction
- Verb
- Tenses
- Subject-Verb Agreement
- Grammar
- Comprehension
- Sentence Rearrangement
- Idioms & Phrases
- Vocabulary
- Articles.
- Fill in the Blanks etc

### Mathematics

- Time and Work
- Time and Distance
- HCF & LCM
- Ratio and Proportions
- Simple & Compound Interest
- Data Interpretation
- Decimal & Fractions
- Percentages
- Profit and Loss
- Mixtures & Allegations
- Problems on Ages
- Number System
- Simplification
- Average

## **General Awareness**

- Indian Constitution
- History - India & World
- Geography - India & World
- Cultural Heritage
- Science & Technology
- About India
- Indian National Movement
- Indian Polity & Governance etc.

## **General Intelligence**

- Blood Relations
- Analogy
- Directions
- Clocks & Calendars
- Coding-Decoding
- Number Series
- Alphabet Series
- Arithmetical Reasoning
- Non-Verbal Series
- Number Rankings
- Decision Making
- Embedded Figures Cubes and Dice
- Mirror Images

## **Reasoning**

- Time and Work
- Time and Distance
- HCF & LCM
- Ratio and Proportions
- Simple & Compound Interest
- Data Interpretation
- Decimal & Fractions
- Percentages
- Profit and Loss
- Mixtures & Allegations
- Problems on Ages
- Number System
- Simplification
- Average

## **Quantitative Aptitude**

- HCM & LCM
- Mensuration
- Number System
- Average
- Speed, time & distance
- Percentage
- Ratio and Proportion
- Profit & Loss
- Inequalities
- Probability
- Simple & Compound Interest
- Time & Work
- Pipes & Cisterns
- Trigonometry
- Geometry
- Data Interpretation

### **Reasoning Ability**

- Classification
- Arithmetical Reasoning
- Series
- Time sequence, number and ranking test
- Analogy
- Statement and Reasoning
- Coding and Decoding
- Venn diagrams
- Number puzzle
- Blood relation
- Syllogism
- Visual reasoning
- Mathematical operation
- Clock & Calendar

### **General Science**

- History
- Botany
- Physics
- Zoology

### **General Knowledge**

- Current Affairs
- Static GK
- Budget and Five-year plans

- Current affairs of National & International news
- Banking
- Important dates
- Sports & Culture
- Awards and Honors

## **Tier II Syllabus Topics**

### **Chemical**

- Process Calculations And Thermodynamics
- Fluid Mechanics And Mechanical Operations
- Chemical Reaction Engineering
- Chemical Technology
- Heat Transfer.
- Mass Transfer

### **Electrical**

- Electric Circuits and Fields
- Electrical and Electronic
- Measurements
- Analog and Digital Electronics
- Power Electronics and Drives
- Signals and Systems
- Electrical Machines
- Power System
- Control System
- Electro Magnetic Induction

### **Mechanical**

- Engineering Mechanics
- Strength of Materials
- Engineering Materials
- Fluid Mechanics
- Heat Transfer
- Theory of Machines
- Vibrations
- Design
- Thermodynamics
- Machining and Machine Tool Operations
- Metal Casting
- Inventory Control and Operation Research

### **Instrumentation**

- Basics of Circuits and Measurement Systems
- Electrical and Electronic Measurements
- Control Systems and Process Control
- Digital Electronics
- Analog Electronics
- Mechanical Measurement
- Industrial Instrumentation
- Signals
- Systems and Communications
- Analytical.
- Optical and Biomedical Instrumentation

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