

BIS Technical Assistant (Laboratory) Exam Pattern

Sl. No	Name of the Test	No. of Questions	Maximum Marks	Duration	Version
1.	General Intelligence & Reasoning	50	50	40 min	
2.	General Awareness	25	25	20 Min	Bilingual
3.	English Language	25	25	20 Min	i.e. English and Hindi except for the test of English Language
4.	Technical Assistant (Lab.) Technical Knowledge of the concerned discipline (Mechanical, Chemical, Microbiology)	50	50	40 min	
	Total	150	150	120 min	-

BIS Technical Assistant Syllabus - Topics Wise

General Intelligence & Reasoning

- Puzzles
- Paper Folding
- Mirror and Water Images
- Odd One Out
- Statement and Assumptions
- Statement and Conclusions
- Syllogism
- Calendars
- Cause and Effect
- Clocks
- Coding-Decoding
- Alphanumeric series
- Reasoning Analogies
- Artificial Language
- Blood Relations
- Decision Making
- Deductive Reasoning/Statement Analysis
- Critical path
- Cubes and cuboids
- Data Sufficiency
- Dices
- Directions

- Embedded Images
- Figure Matrix
- Input-Output
- Picture Series and Sequences
- Pattern Series and Sequences
- Order & Ranking
- Seating Arrangements
- Shape Construction

General Awareness

- Physics, Chemistry & Biology
- Culture
- Economics
- General Polity
- Static GK
- Current Affairs
- General Science
- Governors in India
- Inventions & Discoveries
- Neighboring Countries of India
- Geography
- History
- Indian Constitution
- Scientific Research
- Sports
- Countries, Capital & Currency
- Indian Financial System

English Language

- Reading Comprehension
- Sentence Correction
- Active-passive Voice
- Direct-indirect speech
- Synonyms and Antonyms
- Spelling Test
- Cloze Test
- Fill in the Blanks
- Idioms and Phrases
- One-word Substitution

Mechanical

- The Strength of Materials.
- Operations Research.
- Joining Processes.

- The design of Machine Elements.
- Refrigeration and air-conditioning.
- Thermodynamics.
- Theory of Machines.
- Engineering Mechanics.
- Tool Engineering.
- Thermodynamics and Statistical Mechanics.
- Vector Calculus.
- Calculus.
- Probability & Statistics.
- Turbomachinery.
- Numerical Methods.
- Differential Equations.
- Forming Processes.
- Metal Casting.
- Fluid Mechanics.
- Operations.
- Engineering Materials.

Chemical Engineering

- Process Calculations and Thermodynamics
- Fluid Mechanics and Mechanical Operations
- Heat Transfer Instrumentation and Process Control
- Plant Design and Economics
- DRDO SET Exam Syllabus For Computer Science and Engineering (CS):
- Theory of Computation
- Digital Logic
- Compiler Design
- chemical Technology
- Mass Transfer
- Chemical Reaction Engineering
- Databases
- Computer Networks
- Computer Organization and Architecture
- Programming and Data Structures Algorithms