CIL Management Trainee Syllabus 2020 | Check CIL MT Exam Pattern

Sl.No	Type of the Exam	Number Of Papers	Name of the Subjects	No. of Questions	Total Marks	Exam Time Duration
1.	Online Exam (Objective Type)	Paper 1	General Knowledge / Awareness	100	100	03 hours
			Reasoning			
			Numerical Ability			
			General English			

2.		Paper 2	Professional Knowledge (Discipline related)			

CIL Management Trainee Syllabus 2020

Civil

- Bridge Superstructure.
- Fluid Mechanics.
- Transportation Engineering.
- Hydrology
- Engineering Mechanics.
- Bridge Architecture
- The Strength of Materials.
- Design of Structure.
- Civil Engineering Materials.
- Reinforced Concrete Structures.
- Surveying.
- Elements of Geotechnical Engineering.
- Elements of Structural Analysis.
- Steel Structures.
- Bridge Engineering

Electrical

- Power Systems.
- Switch Gear and Protection
- Electromagnetic Theory.
- Network Analysis.
- Utilization of Electrical Energy.
- Analog and Digital Electronics.
- Electrical Machines.
- Electrical Instrumentation.

- Control Systems.
- Power System Protection.
- Power System Analysis & Control.
- Power Electronics & Drives etc.

Computer Science

- Operating System.
- Databases.
- Algorithms.
- Computer Networks.
- Programming and Data Structures.
- Web Technologies.
- Computer Organization and Architecture.
- Information Systems and Software Engineering etc.

Information Technology

- Information and Network Security
- Cyber Law in India
- Computer Fundamentals and Programming
- Linux System.
- Operating System
- Relational Database Management System
- Data Communication and Networks

Reasoning

- Problem Solving.
- Decision Making.
- Similarities and Differences.
- Figure Classification.
- Space Visualisation.
- Judgment
- Visual Memory.
- Analysis.
- Discriminating Observation.
- Relationship Concepts.
- Arithmetical Number Series etc

General Awareness

- Current Affairs – National & International.
- General Politics.

- History.
- Scientific Research.
- Sports.
- Indian Constitution.
- Geography.
- Economy, Banking, and Finance.
- Important Financial & Economic News.
- Economy.
- India and its neighboring countries.
- Knowledge of Current Events.
- Culture.
- Budget and Five Year Plans.
- Science – Inventions & Discoveries.
- Countries & Capitals. etc.

Quantitative Aptitude

- Simplification.
- Problems on Ages.
- Averages.
- Interest.
- Percentages
- Time & Distance.
- Boats & Streams.
- Time & Work.
- Pipes & Cisterns.
- Profit and Loss.
- Data Interpretation etc.

Finance & Accounts

- Business Statistics & Data Processing.
- Indirect Tax Laws.
- Financial Accounting.
- Cost and Management Accounting.
- Financial Management.
- Business and Corporate Law.
- Banking and financial institutions.
- Auditing.
- Income-tax Law

Electronics & Telecommunications

- Analytical, Optical Instrumentation.

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

Mechanical

- Energy conservation.
- Production Planning and Control.
- Engineering Materials.
- The Strength of Materials.
- Industry Safety.
- Engineering Mechanics.
- Management Information System.
- Metal Casting.
- Inventory Control.
- Computer Integrated Manufacturing Design.

Mining

- Surveying.
- Applied Science.
- Mechanical Technology. (Mining)
- Industrial Training in Underground Mines. (Module I)
- Mine Environmental Engg.
- Basic Computer Skills.
- Mining Geology.
- My Legislation & General Safety.
- Computer Application in Mining.
- Engineering Graphics.
- Blasting Techniques in Mines.
- Applied Mathematics.
- Drawing.
- Basics of Electrical & Electronics Engg. (Mining)
- Introduction to Mining.
- Mining Practice.
- U/G Metalliferous Mining.
- Surface Mining.
- Mine Surveying Practice.
- Coal Mining.

- Basic Management Skills & Indian Constitution.
- Mineral Recovery.
- Rock Mechanics & Ground Control.
- Mine Machinery.
- CASP.