

TCIL Junior Engineer Exam Pattern

S.No	Type of Exam	Name of the Subjects	Exam Duration
1	Both Objective/Subjective	General Knowledge/General English	2 Hours
2		Technical Domain Knowledge	

TCIL Junior Engineer Syllabus -Topic Wise

Technical Domain Knowledge

Civil

- Foundation Engineering.
- Design of Steel Structures.
- Transportation Engineering
- Construction
- Estimation
- Highway Engineering.
- Traffic Engineering.
- Solid Mechanics.
- Geotechnical Engineering
- Irrigation Engineering.
- Environmental Engineering.
- Planning and Management.
- Water Resources and Hydraulic Engineering
- Structural Analysis.
- Building Materials and Building Construction.
- Design of Concrete Structures.

Telecommunication

- Electrical Machine Design
- Control Systems
- Computer Control of Electrical Drives
- Field Theory
- Signals and Systems
- Transformers and Induction Machines
- Information and Network Security
- Logic Design
- Basic Electronics
- Electronic Circuits
- Microcontrollers
- Control Theory

- Engineering Mathematics, Physics, and Chemistry
- Power System Analysis and Stability
- Electrical and Electronic Measurements and Instrumentation
- Network Analysis
- Electrical Power Utilization
- Artificial Neural Networks
- Electrical Design, Estimation and Costing
- Power System Operation and Control
- Electromagnetic Compatibility
- VLSI Circuits and Design
- Introduction to Computer Programming
- Power Electronics

General English

- Cloze Test.
- Subject-Verb Agreement.
- Adjectives.
- Missing Verbs.
- Idioms & Phrases.
- Antonyms.
- Sentence Corrections.
- Articles.
- Para Jumbles.
- Reading Comprehension.
- Error Spotting/Phrase Replacement.
- Word Formations.
- Fill in the Blanks.
- Adverb.
- Grammar.
- Sentence Rearrangement.
- Phrase Replacement.
- Synonyms
- Verb.
- Unseen Passages.
- Meanings.

General Knowledge

- Daily News.
- Countries and Capitals.
- History.
- Economic Scene.
- Geography.
- States & Capitals.
- Culture.

- Indian Constitution.
- Sports & Games.
- Current Events.
- Famous Personalities.
- Art & Culture.
- Scientific Research.
- National & International affairs.
- Current GK.
- Sports.
- Countries & Currencies.

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