

INDICATIVE SYLLABUS FOR THE POST OF SUPERVISOR (PROJECT ELECTRICAL)
ADVERTISED VIDE NOTIFICATION NO. 05/2025

The Written Test shall comprise of objective-type-Multiple-choice questions with 100 questions in total. It would consist of two parts; i.e., Part A and Part B. The test will be held for 100 minutes duration (in one sitting) with the following pattern:

- Part A: Aptitude
- Part B: Discipline-specific

Indicative syllabus for each part is as under:

Part A: Aptitude

- **Quantitative Aptitude:** Profit & Loss, Percentages, Ratio & Proportion, Averages, Time & Work, Time, Speed & Distance, Boats & Streams, Simple & Compound Interest, Number System, Algebra, Geometry, Mensuration, Trigonometry, Data Interpretation, Simplification, Surds & Indices, Probability & Statistics, Permutation & Combination, Mixture & Allegation
- **Logical Reasoning:** Analogy, Coding-Decoding, Number/Alpha-Numeric Series, Seating Arrangement, Blood Relations, Syllogism, Direction Sense, Venn Diagram, Odd One Out, Mathematical Operations, Non-Verbal Reasoning, Dictionary Sequence, Counting Figures
- **English:** Idioms & Phrases, One Word Substitution, Sentence Correction, Error Spotting, Fill in the Blanks, Spelling Correction, Reading Comprehension, Synonyms & Antonyms, Sentence Rearrangement and Sentence Improvement.

Part B: Discipline-Specific

- Basic concepts: Circuit laws, Magnetic Circuit, AC Fundamentals;
- Measurement and Measuring instruments
- Electrical Machines concepts: Transformers, Induction Machines, Synchronous Machines;
- Generation, Transmission and Distribution
- Electrical Protection concepts like breakers, relays, instrument transformers
- Estimation and Costing
- Utilization and Electrical Energy
- Basic Electronics
- Renewable Energy concepts like solar, wind, battery energy storage systems.