

# SYLLABUS FOR MANAGEMENT TRAINEE - ELECTRONICS

## PART I- GENERAL MANAGEMENT APTITUDE (Marks – 25)

### 1. Mental Ability & Reasoning (Intelligence & Critical Reasoning)

- **Logical Reasoning:** Syllogisms, statement & conclusions, statement & arguments, course of action, decision making.
- **Analytical Reasoning:** Puzzles, seating arrangements, complex arrangements, linear and circular arrangements.
- **Verbal Reasoning:** Series completion (alphanumeric, number, symbol), analogies, classification (odd one out), coding-decoding, blood relations, direction sense test.
- **Non-Verbal Reasoning:** Visual reasoning, paper folding/cutting, mirror images.

### 2. English Language & Comprehension (Language Comprehension)

- **Reading Comprehension:** Understanding and interpreting passages.
- **Grammar:** Rules for tenses, prepositions, articles, subject-verb agreement, active and passive voice, direct and indirect speech, spotting errors.
- **Vocabulary:** Synonyms, antonyms, idioms & phrases, one-word substitutions, words often confused and misused.
- **Verbal Ability:** Sentence correction, sentence completion/fill in the blanks, para jumbles/sentence rearrangement.

### 3. Data Analysis & Interpretation (Data Analysis & Sufficiency)

- **Data Interpretation (DI):** Analysis of data from sources such as bar graphs, line graphs, pie charts and tables.
- **Data Sufficiency & basic Statistics**

### 4. Numerical Ability (Mathematical Skills/Quantitative Aptitude)

- **Arithmetic:**
  - Number systems, HCF and LCM.
  - Percentages, profit & loss, simple & compound interest.
  - Ratio & proportion, averages, problems on ages.
  - Time & work, time & distance, pipes & cisterns.
  - Mixtures and allegations, partnership.
- **Algebra:** Basic algebra, linear equations, inequalities, logarithms, permutations and combinations (occasionally).

- **Geometry & Mensuration:** Basic geometry (triangles, circles) and mensuration (area and volume).
- **Simplification:** Square roots, cube roots, surds & indices

**5. General Knowledge & Current Affairs**

**DISCIPLINE – ELECTRONICS (Marks – 60)**

1. Networks/Signals and Systems
2. Electronic Devices
3. Analog Circuits
4. Digital Circuits
5. Control Systems
6. Communications
7. Electromagnetics
8. Measurements & Instrumentation
9. Microprocessors & Microcontrollers

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**Disclaimer: The Above syllabus is broadly indicative but not exhaustive. Examination paper will be related to the qualification and relevant experience as per the post advertised**