Syllabus **JUNIOR executive (JE)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sr. | Part | Weightage | Passing Marks  (minimum) | Details |
| 1. | **General Ability** | **30%**  (30 Questions) | **50 %**  (50/100 marks) | 1. **Microsoft Office** - (10 Questions) 2. **Verbal Reasoning (English)** - Vocabulary, Grammar, Comprehension (10 Questions) 3. **Quantitative Reasoning** - Arithmetic, Algebra, Geometry (10 Questions) |
| 2. | **Subject Ability** | **70%**  (70 Questions) | *(Syllabus details provided below under the respective post/title)* |

Syllabus of the Subjective PART *(as per ACADEMICS & requirement of the post)*:

## JUNIOR Executive (jE)

|  |  |  |
| --- | --- | --- |
| Sr. | Concept | Weightage / Questions |
| A | **Power Engineering** | |
| 1 | Power Generation | **25** |
| 2 | Electrical Power Transmission and Distribution |
| 3 | Power System Analysis |
| 4 | Power System Operation |
| 5 | High Voltage Engineering |
| 6 | Power Electronics |
| 7 | Renewable Energy Systems |
| 8 | Engineering Economics |  |
| B | **Fundamentals of Electrical & Electronics Engineering** | |
| 1 | Electrical Network | **20** |
| 2 | Linear Control Systems |
| 3 | Signals and Systems |
| 4 | Instrumentation and Measurement |
| 5 | Digital Logic Design & Applications |
| 6 | Communication Systems |
| 7 | Electronic Devices & Circuits |
| 8 | Electrical Machines |
| C | **Fundamentals of Mechanical Engineering** | |
| 1 | Thermodynamics | **25** |
| 2 | IC Engines and Turbines |
| 3 | Basics of HVAC |
| 4 | Mechanics of Machines |
| 5 | Fluid Mechanics |
| 6 | Engineering Drawing and Graphics |
| 7 | Heat Transfer |
| 8 | Engineering Mechanics |
| 9 | Health, Safety and Environment |
| 10 | Plant Engineering |
|  | **Total** | **70** |

NOTE: Meeting the minimum passing criteria does not ensure an interview call; only shortlisted candidates will be contacted.