

**Indicative syllabus for various posts (Total 120 Questions)****A. Junior Manager (Civil) (Post Code: 11):**

- a. Part-I (24 Questions) : General Knowledge, General Aptitude/Reasoning etc
- b. Part-II (96 Questions) : Engineering and Solid Mechanics, Structural Analysis, Construction materials and management, Concrete Structures, Steel Structures, Soil Mechanics, Foundation Engineering, Municipal Solid Waste, Transportation infrastructure, Highway Pavements, Traffic Engineering, Surveying etc

**B. Junior Manager (Operations and BD) (Post Code: 12):**

- a. Part-I (24 Questions) : General Knowledge, General Aptitude/Reasoning etc
- b. Part-II (96 Questions) : Management Functions and Behavior, Management of Human Resources, Finance for Management, Marketing for Management, Quantitative Analysis for Management, Management Information Systems, Logistics and Supply Chain Management, Strategic Management etc

**C. Junior Manager (Mechanical) (Post Code: 13):**

- a. Part-I (24 Questions) : General Knowledge, General Aptitude/Reasoning etc
- b. Part-II (96 Questions) : Mechanics, Strength of Materials, Theory of Machines, Engg. Design & Drawing, Fluid Mechanics, Thermo Dynamics, Engineering Material and Manufacturing Technology, Machining and Machine Tools, Metrology and Inspection, Electronics and Communication, Computer (Basic), Quality Management (ISO,IMS, OHSAS), Mechatronics, Basic Electricity and Magnetism etc

**D. Executive (Civil) (Post Code: 21) :**

- a. Part-I (24 Questions) : General Knowledge, General Aptitude/Reasoning etc
- b. Part-II (96 Questions) : Surveying, Strength of material, Structural Design & Drawing, Buildings & Construction Material, Soil mechanics & Foundation Engineering, Concrete Technology, Reinforced & Pre-stressed concrete, Hydraulics, Hydrology & Hydraulics Structures, Public Health Engineering & Water Supply, Railway Engineering & Railway Track etc.

**E. Executive (Electrical) (Post Code: 22) :**

- a. Part-I (24 Questions) : General Knowledge, General Aptitude/Reasoning etc
- b. Part-II (96 Questions) : Circuit Analysis, Machines, Electronics, Measurement, Control System, Material system, Rest etc.

**F. Executive (Signal & Telecommunications) (Post Code:23) :**

- a. Part-I (24 Questions) : General Knowledge, General Aptitude/Reasoning etc
- b. Part-II (96 Questions) : Engineering Mathematics, Networks, Signals & systems, Electronic devices, Analog Circuits, Digital circuits, Control System, Communication, Electromagnetic etc.

**G. Executive (Operations & BD) (Post Code: 24) (120 Questions) :**

- a. General Knowledge, Logical Reasoning, Numerical Ability, General Science, History of Indian Railways and DFCCIL, Economics & Marketing, Customer Relations etc.

**H. Executive (Mechanical) (Post Code : 25) :**

- i) Part-I (24 Questions) : General Knowledge, General Aptitude/Reasoning etc
- ii) Part-II (96 Questions) : Mechanics. Strength of Materials, Theory of Machines, Design, Fluid Mechanics, Thermo Dynamics, Engineering Material and Manufacturing Technology, Machining and Machine Tools, Metrology and Inspection etc.

**I. Junior Executive (Electrical) (Post Code : 31) :**

- a. Part-I (60 Questions) : General Knowledge, Numerical Ability, General Aptitude/Reasoning, General Science etc
- b. Part-II (60 Questions) : Electrical Circuits and Fields, Signals and Systems, Electrical Machines, Power Systems, Control Systems, .Electrical and Electronic Measurements, Analog and Digital Electronic, Power Electronics and Drives etc.

**J. Junior Executive (Signal & Telecommunications) (Post Code:32) :**

- a. Part-I (60 Questions) : General Knowledge, Numerical Ability, General Aptitude/Reasoning, General Science etc
- b. Part-II (60 Questions) : Electronic Measurements and Instrumentation, Analog and Digital Circuits, Analog and Digital Communication Systems, Computer Organization and Architecture, Electro Magnetics, Advanced Communication Topics etc.

**K. Junior Executive (Operations & BD) (Post Code:33) :**

- a. Part-I (60 Questions) : General Knowledge, Numerical Ability, General Aptitude/Reasoning, General Science etc
- b. Part-II (60 Questions) : History of Indian Railways & DFCCIL, Economics & Marketing, Logical Reasoning, Customer Relations etc.

**L. Junior Executive (Mechanical) (Post Code:34) :**

- a. Part-I (60 Questions) : General Knowledge, Numerical Ability, General Aptitude/Reasoning, General Science etc
- b. Part-II (60 Questions) : Engineering Drawing, Measurement, Work, Power & Energy, Heat & Temperature, Machines, Tools & Equipment etc

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