

## **SYLLABUS FOR THE POST OF ASSISTANT ENGINEER(E&M),**

### **E-2 GRADE (INTERNAL)**

**Internal Circular No. CRP/PER/R/2025/1037, Dt. 08.11.2025**

#### **PART – I (Subject related to the post)**

Electrical Circuits, Electronic Devices & Circuits, Electrical Machines, Electromagnetic fields, Control Systems Engineering, Analog Electronic Circuits, Switching Theory and Logic Design, Electrical Power Generating Systems, Electrical & Electronic Measuring Instruments, Electrical Power Transmission System, Power Electronics, Power Service Conductor Drives, Power System Protection, Power System Operation and Control, Power System Analysis, Electrical Distribution Systems, Utilization of Electrical Energy, Energy Auditing, Engineering Mechanics, Strength of Materials/ Mechanics of Solids, Thermodynamics, Metallurgy and Material Science, Production Technology, Theory of Machines, Thermal Engineering, Mechanics of Fluids and Hydraulic Machines, Machine Tools and Metrology, Design of Machine Members, Heat Transfer, Automobile Engineering, Refrigeration & Air Conditioning etc.

#### **PART-II (General Studies)**

1. General Knowledge
2. General English
3. Quantitative Aptitude & Numerical Ability
4. Test of Reasoning
5. Computer Basics