

Syllabus for the Post of Technician Gr-III

Post Code: 10

- a. Wires & Cables-Type, Specifications.
- b. Solders, Soldering Technique & Flux .
- c. OHM's Law, Kirchhoff's Law, Voltage drop in Ckt & Series, Parallel Ckt.
- d. Introduction of Magnetism & its Properties, Principal of Electromagnetism, Crock Screw Rules, Faraday's Law, Lenz's Law, Flemings Right Hand Rule, Principal of AC-Generator, Use of Slip Rings & Split Rings.
- e. Use of Ammeters, Voltmeters, Shunt & Multipliers, Energy Meters, Earth Tester with specification.
- f. General Idea of Single Phase & Poly Phase system current Power & Power factor.
- g. Explanation of Megger, Types of Use of Megger in fault location.
- h. Principal of Transformer-Constructional Features-Voltage, Current & turn ration, Construction & Connection of 3Phase Transformer.
- i. Explanation of losses and efficiency of a transformer, Knowledge about temperature rise & Cooling methods, General procedure of testing a new transformer.
- j. Explanation of Over Head Bus Bar, Side Bus Bar, Bus tranking & rising mains, IE rules regarding panel erection, Connection of high voltage metering equipment used with Bas Bar.
- k. Different terms used in illumination, Types of reflectors.
- l. Concepts of Digital lighting & its calculation.
- m. Types, Specification of Circuit Breakers Construction & Maintenance.
- n. Electrical safety & Earthing System.
