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INDIAN RAILWAYS
DMW/PATIALA

Syllabus for the post of JE-II, 25% IMA Quota, Scale ₹9300-34800+₹4200/- MW/Electrical Trade.

1. **GENERAL KNOWLEDGE:**

Knowledge about current affairs on Indian Railways Organization & its systems. Establishments Rules, Factory Act, Workman Compensation Act & D & A Rules required to be exercised by the Supervisor in day to day working, knowledge about store keeping and stores maintenance, withdrawal of store items from Main Store.

2. **MATHEMATICS:**

Question will be asked on Arithmetics of High School standard.

3. **TECHNICAL (ELECTRICAL):**

- (i) Principle & working of electrical motors, generators, transformers, power supply equipments, switch gears, pumps, cranes, air conditioning system, voltage stabilisers, rectifiers and battery chargers etc.
 - (ii) Knowledge of components drawings, schematic drawings, layout drawing & wiring drawings, engineering drawings of simple components in 1st angle, 3rd angle and isometric view.
 - (iii) Knowledge of testing of electrical equipment, panel boards, house wiring, loco wiring and earthing.
 - (iv) Knowledge of measuring and testing instruments and their use.
 - (v) Operation and maintenance of electrical installations and machines, their common failures and repairs.
 - (vi) Knowledge of 'I.E.E. Rules & Safety Rules, methods for shock treatment and artificial respiration.
 - (vii) Elementary knowledge of C.N.C. machines their use and advantages over conventional machines.
 - (viii) Knowledge of specifications, inspection methods, quality control and its implications.
 - (ix) An elementary knowledge of electrical such as SCR, Micro Processor, inverter, rectifier, battery charger, voltage stabilizer, UPS, isolation transformers etc.
 - (x) Elementary knowledge of feed back devices, servo devices and control cards.
 - (xi) Knowledge about use of cables in electrical installation, joining of cables, testing of cables, fault detection and maintenance of cables.
 - (xii) Knowledge of safety electrical items used in our shop.
 - (xiii) Knowledge regarding battery charging process and Electrolytic preparation, type of batteries used and charging hours for each type of battery used in our organization.
 - (xiv) Knowledge about operation and maintenance of diesel generating sets.
4. ISO 9002 as applicable to Plant Organisation.

5. **राजभाषा:**

1. भारत सरकार का राजभाषा नीति का सामान्य परिचय।
2. राजभाषा अधिनियम 1963 तथा राजभाषा संशोधन अधिनियम 1976.
.....उपरोक्त 1 एवं 2 के संबंध में व्याख्या हेतु रेलवे बोर्ड द्वारा जारी राजभाषा हिन्दी विषयक आदेशों का संकलन (तृतीय संस्करण 1993) देख सकते हैं।
3. प्रचलित शब्दावली

Handwritten Signature
सहायक कामिक अधिकारी-1,
डी०एम०डब्ल्यू०/पटियाला।