



GuruAanklan

**Grand
Test**

**SAMPLE
HSC EXAMINATION
ELECTRICAL MAINTENANCE (PAPER I)**

M.Marks: 40

Duration:2.30 Hrs

Q.1. Attempt any Four

[4]

- 1) A fuse is always used in _____ wire of a circuit.
 - a) Neutral
 - b) Earth
 - c) Live

- 2) _____ wires are used for damp places.
 - a) Lead Sheathed
 - b) V.I.R.
 - c) Flexible

- 3) _____ wiring is used in workshops.
 - a) Casing Caping
 - b) Cleat
 - c) Metal conduit

- 4) _____ insulators are used in H.V. lines
 - a) Pin type
 - b) Suspension type
 - c) Shackle type

- 5) Underground Cables are used for _____ distance
 - a) Short
 - b) Long
 - c) None of the above

- 6) _____ material is used in domestic heating appliances.
- a) Nickel
 - b) Chrome
 - c) Nichrome.

Q.2. Attempt any three

[6]

- 1) Give the symbols for
 - a) Electric Bell
 - b) Lighting Arrestor
 - c) Neutral Link
 - d) Main switch (power)
- 2) Draw a labeled circuit diagram of three point godown wiring
- 3) Draw a labeled circuit diagram of one point series parallel testing board.
- 4) Draw a detail panel diagram of four point starter with ammeter & voltmeter.
- 5) Write a short note on fuse

Q.3. Attempt any three

[6]

- 1) Draw a detail panel diagram of D.O.L. starter with ammeter & voltmeter.
- 2) Draw a labeled diagram of D.O.L. starter.
- 3) Draw a labeled diagram of p.m.m.c instrument.
- 4) With the help of neat diagram write the working of kit-kat fuse and its uses.
- 5) Define the following
 - a) Lumen
 - b) Luminous Flux

Q.4. Attempt any two [6]

- 1) List the factors to be considered for a good illumination.
- 2) State the properties of an insulator.
- 3) Write a short note on classification of cables.

Q.5. Attempt any two [6]

- 1) State the properties of a heating element.
- 2) With the help of a neat diagram explain the construction of a four core cable.
- 3) Write a short note on classification of fuses.

Q.6 Attempt any two [12]

- 1)
 - a) With the help of a neat diagram explain casing capping wiring system.
 - b) With the help of neat diagram explain the construction and use of shackle type insulator.
- 2) State the different types of lighting schemes. Explain in brief.
- 3) List the twelve I.S.I rules for wiring.