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**3rd Sem/ Electrical Engineering, Power Station Engg.,
Elect. & Eltx . Engg.**

Subject : Electrical Engineering Design and Drawing-I

Time : 3 Hrs.

M.M. : 100

SECTION-A

Q.1 Draw any ten symbols of the following. (10x2=20)

- i) Main switch (Power)
- ii) TPICN
- iii) Wire crossing
- iv) HRC fuse
- v) Ceiling fan
- vi) Switch single pole
- vii) Socket outlet 3 pin, 6A
- viii) Double pole MCB
- ix) Energy Meter
- x) Push button 'NC'
- xi) Overload relay
- xii) Bell

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SECTION-B

Note: Attempt any two questions out of three questions.

(20x2=40)

- Q.2 Draw the single line schematic and wiring diagram of two lamps control by two switches.
- Q.3 Design the wiring diagram for long godown for lightning Circuit.
- Q.4 Design and draw single line and wiring diagram of distribution panel for residential building. The electrical circuit consist of energy meter, main switch, MCB and ELCB with 4 no sub circuit.

SECTION-C

Note: Attempt any one questions out of two questions.

(40x1=40)

- Q.5 Draw the front view, side view and top view of bus bar post as shown in fig 1.
- Q.6 Draw the end view and upper half sectional front view of body and stator of induction motor as shown in fig 2.

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