OR

Drraw front view, side view, top view of bus bar post shown in the figure. Also assume rising dimension. Front view looking from A side view looking from B.

7 HOLE 3 DEEP 20 HOLE 26 DEEP 25 HOLE 3 DEEP

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4th Sem. / Lect. & Eltx.

Subject : Electrical Engineering Design & Drawing

Time: 3 Hrs. M.M.: 100

SECTION-A

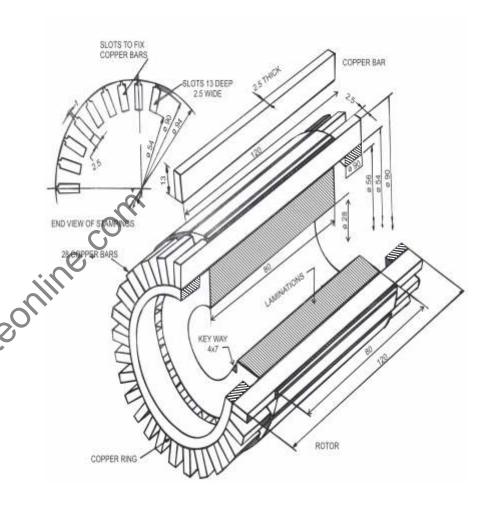
Note: Solve any Five Question: 3x5=15

- Q.1 a) Draw the symbol for thermal over load relay and semi automatic starter.
 - b) Draw the symbol for tachometer, galvanometer and slip ring.
 - c) Draw the symbol for single phase squirrel cage induction motor and single phase auto transformer.
 - d) Draw the symbol pressure switch, two way contact and metal rectifier.
 - e) Thermo couple, frequency meter and (1) 126544

phase indicator.

- f) Draw the symbol VAR meter, Distribution fuse board without switch "Power"
- g) Draw the symbol for neutral link, hooter and exhaust fan.
- h) What is contactor?
- Q.2 Explain the CAD system in detail and name the various component and devices for making printed circuit board.
- Q.3 Draw the schematic and wiring diagram of limit switch control of a 3 phase induction motor.
- Q.4 Draw the schematic and wiring diagram for sequential operation of two 3 phase induction motor using time delay relay.
- Q.5 The isometric view of a rotor of squirrel cage induction motor is shown in fig draw sectional view rotor of a squirrel cage induction motor. 20

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Q.6 Design and draw the schematic and wiring diagram of DOL states of 3 phase induction motor.
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