No. of Printed Pages : 4			
Roll No			180934/170934/ 120934/30934
3rd Sem. / Electrical Engg.			
Subject : ELECTRICAL ENGINEERING DESIGN AND DRAWING-1			
Time: 3 Hrs.			M.M.: 100
SECTION-A			
<b>Note:</b> Very Short Answer type ques 15 parts.			uestions. Attempt All (15x2=30)
Q.1	Draw a symbols of 15		(CO-1, CO-2)
	a)	Earth Electrode.	
	b)	Bell.	
	c)	Transformer.	
	d)	Distribution fuse boar (Power)	d without switches

Diode.

Heater.

Fuse.

Voltmeter.

Energy meter.

Three phase motor.

Socket outlet with switch.

(1)

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e)

g)

h)

i)

k)

- I) Switch (open).
- m) MCB.
- n) Light dependent switch.
- o) Limit switch (NC).

## **SECTION-B**

Note: Attempt all questions.

Q.2 Draw the schematic, wiring and single line diagram for one light, one fan and one 6 A socket to be controlled by individual switch.(20)

or

Draw the schematic, wiring and single line diagram for single stair case wiring system using two way switch (One lamp controlled by 2 switches). (CO-3,CO-4) (20)

- Q.3 Draw the wiring diagram for house consisting Energy meter, main switch etc. The circuit should contain separate control panels for lighting and power control. Show at least four sub-circuit on each lighting and power circuit.

  (CO-5) (20)
- Q.4 Draw the following views of bus bar post shown in figure 1. (CO-6) (30)
  - 1) Front view in section looking in the direction of arrow 'A'.

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- 2) Side view in section looking in the direction of arrow 'B'.
- 3) Top view

or

The isometric view of rotor of squirrel cage induction motor is shown in figure 2.

Draw the following

- 1) Half sectional view.
- 2) End view of rotor assembly.

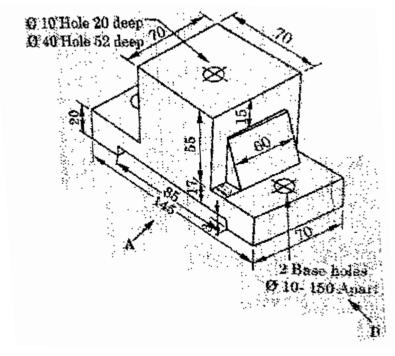


Figure no.1

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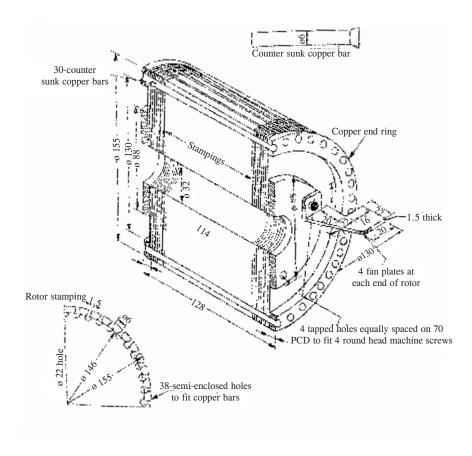


Figure no.2

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