

No. of Printed Pages : 2 180944/170944/120944
Roll No. /030944

4th Sem / Elect., Power Station Engg., Elect. & Eltx. Engg
Subject:- Electrical Engineering Design and Drawing - II

Time : 3Hrs.

M.M. : 100

SECTION-A

Note: All questions are compulsory.

- Q.1 i) What is the purpose of earthing? (CO2) 2 marks
ii) What are the methods of reducing earth resistance? (CO2) 3 marks
iii) Why are the metal frames of electrical apparatus earthed? (CO2) 5 marks
iv) What is earth electrode and what are the types of electrode. (CO3) 5 marks
- Q.2 Draw the schematic and wiring diagram of Automatic Star Delta Starter for a three phase induction motor. (CO1) 25 marks

OR

What are the different types of earthing . Draw the diagram of plate earthing. Also provide the list of material used for plate earthing. (CO2)

- Q.3 Draw the key diagram of 11 KV/440V substation along with symbols used for different equipment.

(CO4) 20 marks

- Q.4 a) Explain the following Auto CAD Commands

(CO5) 10 marks

- i) Line
- ii) Arc
- iii) Move
- iv) Rotate
- v) Trim

- b) Draw the schematic and wiring diagram of DOL starting of three phase induction motor

(CO1) 10 marks

- Q.5 Draw the schematic and wiring diagram of sequential operation of two motors using time delay relay. (CO1) 20 marks

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