

No. of Printed Pages : 2
Roll No.

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**4th Sem / Elect, Power Station Engg, Elect. &
Eltx . Engg.**

Subject:- Electrical Engineering Design & Drawing-II

Time : 3Hrs. M.M. : 100

Note: All questions are compulsory.

- Q.1 i) Explain the concept of earthing. (CO3) 2 Marks
ii) Enlist the equipments that should be connected to earth. (CO2) 3 Marks
iii) Explain the factors on which earth resistance value depends. (CO2) 5 Marks
iv) Describe the method used for reducing earth resistance. (CO2) 5 Marks
- Q.2 Draw the schematic and wiring diagram for a manually star delta starter of a three phase induction motor. Also provide overload and short circuit protection to the motor. (CO1) 25 Marks

OR

Draw the schematic and wiring diagram for a lift using limit switch. (CO1)

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Q.3 Draw the Key Diagram of 11KV/440V substation along with a list of various symbol of equipments used. (CO4) 20 Marks

Q.4 A) Explain the following given (CO5) 10 Marks
Auto CAD COMMANDS

- a) Rotate b) Array
c) offset d) Mirror

B) Draw the circuit drawing of schematic & wiring diagram of forwarding and reversing of a 3-d Induction motor. (CO1) 10 Marks

Q.5 Draw the diagram of plate earthing. Also provide the list of material used for pipe earthing (CO3) 20 Marks

(Note: Course outcome/CO is for office use only)

(1840)

(2)

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