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Roll No.

180944/170944
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4th Sem. / Elect, Power Station Engg. Elect & Eltx. Engg.
Sub : Electrical Engineering Design & Drawing-II

Time : 3 Hrs. M.M. : 100

SECTION-A

Note: All Questions are compulsory.

- Q.1 i) Give the definition of earthing (CO2) 2 marks

ii) Give the two relevant IS specifications of earth electrode for earthing a transformer (CO3) 3 marks

iii) What is the equipment earthing and what is the importance of earthing. (CO2) 5 marks

iv) What are the factors on which earth value depends. (CO2) 5 marks

Q.2 Draw the schematic and wiring diagram of two speed control of phase induction motor. (CO1) 25 marks

or

What is the purpose of earthing. Draw the diagram of pipe earthing. Also provide the list of material used for pipe earthing. (CO1)

- Q.3 Draw the key diagram of 33KV substation along with symbols used for different equipments. (CO4) 20 marks

Q.4 a) Explain the following Auto CAD commands. (CO5) 10 marks

 - i) Circle
 - ii) Copy
 - iii) Mirror
 - iv) Offset
 - v) Text

b) Draw the schematic and wiring diagram of limit switch control of a three phase induction motor. (CO1) 10 marks

Q5. Draw the schematic and wiring diagram of forwarding / reversing of a three phase induction motor. (CO1) 20 marks

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