Total No. of Questions : 6]	SEAT No.:
P3687	[Total No. of Pages :2

Engg. - 25

T.E (Electrical) (Semester - I)

Electrical Installation Maintenance & Testing (In Sem.)

(2012 **Pattern**) Time:1 Hour] [Max. Marks:30 Instructions to the candidates: Answer Q1 or Q2, Q3 or Q4, Q5 or Q6 1) 2) Neat diagrams must be drawn wherever necessary. 3) Figures to the right side indicate full marks. Assume Suitable data if necessary 4) **UNIT-I** a) What is maintenance? Explain the necessity of maintenance? *Q1*) [2] b) Explain planned & preventive maintenance of transformer. [4] c) Explain planned & preventive maintenance of alternator. [4] \mathbf{OR} O2)a) Explain various insulation stressing factors in detail. [3] b) Explain planned & preventive maintenance of induction motor. [3] c) Describe polarization index & dielectric absorption ratio. [4] UNIT-II a) Describe the concept of condition monitoring. Q3)[2] b) Write a note of maintenance of insulating oil as per IS. [2] c) Explain the failure modes transformer. Explain condition monitoring of transformer. [6]

OR

P.T.O.

Q4) a) Which IS standard is used for testing of oil. Explain the procedure to test the oil. [3] b) Write a note on dissolved gas analysis [4] c) How the health of insulating oil can be improved by filtering/reconditioning of oil. [3] **UNIT-III** a) Explain the various fault monitoring methods for Induction motor Q5)[6] b) Write a note on motor current signature analysis. [4] OR **Q6)** a) Explain the various fault diagnostic methods for Induction motor. [6] b) Write a trouble shooting chart for induction motor. [4]

