Tota	l No.	of Questions : 6] SEAT No. :			
P53	884	[Total No. of Pages : 2			
T.E./Insem629					
T.E. (Electrical)					
EIMT					
	2:1H				
Instr		ns to the candidates:-			
	1)	Answers Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6.			
	2)	Neat diagrams must be drawn wherever necessary.			
	3)	Figures to the right indicate full marks.			
	4)	Use of logarithmic tables slide rule, Mollier charts, electronic pocket calculator and steam tables is allowed.			
	<i>5)</i>	Assume suitable data, if necessary.			
	<i>6)</i>	Your answers will be valued as a whole.			
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Q1)	a)	Explain General design consideration of the distribution feeder. [4]			
	b)	A single phase distributor AB has $R = 0.2 \Omega$ and $X = 0.3 \Omega$, at far end B. the voltage V_B is 240V and current 80A at pf 0.8 lagg. At mid-point. current is 100A at 0.6 pf lagging w.r.t. to voltage V_A at A. Find Supply voltage and Phase angle between V_A and V_B ? [6]			
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<i>Q2)</i>	a)	Explain the voltage level of Ring Type Distribution Feeder. [3]			
	b)	Explain the difference between Overhead Transmission line and Underground transmission line based on volume of conductor? [3]			
	c)	State and explain the Kelvin's Law? [4]			
Q3)	a)	List the types of Bus Bar system? Explain any one. [4]			
	b)	Explain the terms: [6]			
		i) Touch Voltage			
		ii) Step Voltage			
		OP.			

Q4) a)	Explain with the help of diagram Pipe Earthing.	[5]
b)	Explain with Diagram Peterson coil Grounding.	[5]
Q5) a)	Write short notes on following:	[6]
	i) Polarization Index.	
	ii) Dielectric absorption test.	
b)	Explain preventive maintenance of transformer.	[4]
	OR	
Q6) a)	Explain use of Thermography in power systems.	[4]
b)	Explain the factors affecting the life of Insulation.	[6]
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