Tota	l No. o	of Questions : 6] SEAT No. :
P53	84	[Total No. of Pages : 2
		T.E./Insem629
		T.E. (Electrical)
		EIMT
Time	e:1H	[Max. Marks: 30
Instr	uctio	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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<b>Q</b> 1)	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]
Q2)	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

<i>Q4)</i>	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]
2,		i) Polarization Index.	[-]
		ii) Dielectric absorption test.	
	b)	Explain preventive maintenance of transformer.	[4]
		OR	
<b>Q6</b> )	a)	Explain use of Thermography in power systems.	[4]
	b)	Explain the factors affecting the life of Insulation.	[6]
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