Total	l No	o. of Questions : 6]	CE A TE N	
P8(JEAT NO	tal No. of Pages : 1	
100	•	OC 110/BE/Insem 135	tai i vo. oi i ages . i	
TA ICT		B.E. (Electrical)		
INI	K(ODUCTION TO ELECTRICAL TRANSPORTATION (2012 Course) (Semester 1) (Floative II) (40)		
		(2012 Course) (Semester - I) (Elective-II) (403	3144)	
Time	e : 1	Hour]	[Max. Marks:30	
Instr	ucti	ons to the candidates:		
	1)	Neat diagrams must be drawn wherever necessary.		
	<i>2)</i>	Figures to the right indicate full marks.		
	3) 4)	All questions carry equal marks. Assume suitable data, if necessary.		
	4)	Assume summie uma, y necessary.		
Q1)	a)	Write the advantages and disadvantages of Electric trace	ction. [4]	
	b)	Explain the waterways mode of transportation with disadvantages.	advantages and [6]	
		OR		
Q2)	Exp	plain the need, importance and role of transportation syst	ems in society.	
			[10]	
<i>Q3</i>)	a)	Explain the various sources of energy used in transpor	tation systems.	
•	,		[4]	
	b)	Explain the impact of batteries on environment.	[6]	
		OR		
Q4)	Ex	plain the working of Ni-cd battery with its characteristics	. [10]	
Q5)	a)	Explain the process of conversion of electrical energy energy in AC machines.		
			[4]	
	b)	Explain single phase AC to DC converter with neat dia	gram. [6]	

OR

 $\it Q6$) Explain the speed-torque characteristics of DC drives with neat diagram.

[10]

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