[10]

Total	No	. of Questions : 6] SEAT No. :	
P80		OCT16/BE/Insem 135 [Total No. of Pages :	
B.E. (Electrical) INTRODUCTION TO ELECTRICAL TRANSPORTATION SYSTEMS (2012 Course) (Semester - I) (Elective-II) (403144)			
		Hour] [Max. Marks :3	
		ons to the candidates:	
	1)	Neat diagrams must be drawn wherever necessary.	
	2) 2)	Figures to the right indicate full marks.	
	3) 4)	All questions carry equal marks. Assume suitable data, if necessary.	
7	+)	Assume suitable tatit, if necessary.	
Q1)	a)	Write the advantages and disadvantages of Electric traction. [4	
	b)	Explain the waterways mode of transportation with advantages and disadvantages. [6]	
		OR	
Q2)]	Ext	plain the need, importance and role of transportation systems in society.	
2-)	- 241	www.sppuonline.com [10]	
Q3)	a)	Explain the various sources of energy used in transportation 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 into mechanical energy in AC machines. [4]	
	b)	Explain single phase AC to DC converter with neat diagram. [6]	
		OR	
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Qb)	EX	plain the speed-torque characteristics of DC drives with neat diagram.	

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