Total No. of Questions: 8]	SEAT No.:
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[5254]-631

	B.E. (Electrical) (End sem) INTRODUCTION TO ELECTRICAL TRANSPORTATION				
	SYSTEMS (Elective – II)				
		(2012 Pattern)			
	e: 2:30 Hours] [Max. Marks : 70 vuctions to the candidates:)		
Insu	1) 2)	Solve Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8. Figures to the right indicates full marks.			
Q1)	a)	What is the role and importance of the transportation system? Explain the factors affecting transportation system. [8]			
	b)	Explain different types of batteries with their characteristics. [12]]		
OR					
Q2)	a)	What are the advantages and disadvantages of Electric traction? [4]]		
	b)	Explain various power quality issues of charging electric vehicles. [6]]		
	c)	Explain the working of Ni-cd battery with neat diagram and its characteristics. [10]			
Q3)	a)	Explain various components of electric wheel chair. [8]]		
	b)	Draw & Explain block diagram of BLDC motor. [8]]		
	OR				
Q4)	a)	Explain smart traffic control with their benefits. [8]]		
	b)	Draw & explain electric power steering. [8]]		

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[8]	Explain DC and AC traction systems with their applications.	a)	Q5)
with a [10]	Explain the various components and working of hybrid vehicle neat diagram.	b)	
	OR		
ms.[8]	Explain the types of mechanical drives used in transportation syste	a)	Q6)
[10]	Explain the power train architecture of high speed rail.	b)	
[8]	Draw & Explain load characteristics of Elevator systems.	a)	Q7)
[8]	Describe the concept of special purpose vehicles.	b)	
OR			
[8]	Explain the control scheme used in different types of elevators.	a)	Q8)



Draw and explain an acceleration and speed characteristics of hybrid

[8]

b)

car.