Total No. of Questions: 8]	SEAT No.:
P3597	[Total No. of Pages : 2

[4959]-1071

B.E. (Electrical) (End Semester)

IIN	SYSTEMS				
(2012 Pattern) (Elective - II)					
Time	e: 2½	[Max. Marks: 7			
Insti	ructio 1) 2) 3)	ons to the candidates: Attempt Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8. Neat diagrams must be drawn wherever necessary. Figures to the right indicate full marks.			
Q 1)	a)	Explain Lead Acid battery with neat diagram. [8			
	b)	Define transportation system: Importance and factors affecting transportation system. [8]			
	c)	Explain Air way transportation mode in detail. [4			
		OR			
Q 2)	a)	Explain different characteristics of battery. [8]			
	b)	Explain different types of mechanical drive. [8			
	c)	Why power converter is needed in battery operated vehicle. [4			
Q3)	a)	Explain Buck type of DC converter with diagram. [8			
	b)	Differentiate between Hybrid and electric vehicle. [8			
		OR			
Q4)	a)	Explain speed torque characteristics of DC machine in battery operated vehicle with neat diagram. [10]			
	b)	Differentiate between mechanical and electrical steering. [6			
Q 5)	a)	Explain different types of Hydraulic drive used in transportation system.[10			
	b)	Draw typical power train architecture and explain in brief. [8			

P.T.O.

Q6)	a)	What is Hybrid car and explain different types of hybrid vehicles? [1	
	b)	Explain DC traction system in detail.	[8]
Q7)	a)	Explain acceleration and speed characteristics of hybrid car.	[8]
	b)	Draw control system diagram used in elevator and explain in brief.	[8]
		OR	
Q8)	a)	Explain Hydraulic type of elevator system.	[8]
	b)	Explain different type of control schemes in special vehicle.	[8]

