Total No.	of Questions : 4]	SEAT No. :	
PA-10:	341	[Total No. of Pag	ges : 1
171 10	[6009] 445		
	T.E. (Mechanical Engineering) (I	nsem.)	
	ELECTRIC VEHICLES (Hon	ŕ	
		ŕ	
	e-Vehicle System Design		
(201	9 Pattern) (Semester - II) (Elective -	- II) (302033M	J)
<i>Time</i> : 1	Hour]	[Max. Mark	s : 30
Instructi	ions to the candidates:		
1)	Answer Two questions from the following (question		r Q.4)
2)	Draw neat labeled diagrams wherever necessary.	. 2	
3)	Figures to the right side indicate full marks.	÷20	
<i>4</i>)	Use of non-programmable electronic calculator	is permitted.	
5)	Assume suitable/standard data if necessary.		
	9.7		
,	×, ×,		
Q1) a)	Explain topology design of bicycle.		[7]
b)	What are the types of steering system and exp	olain any two.	[8]
,		J	
	OR		
Q2) a)	Explain how a car steering system works.		[8]
b)	Explain 2W configuration of bicycle/dicycle	layout.	
	2.V		20
O3) a)	Explain different types of Front and Rear Sus	spension System.	[8]

Explain Shock Absorbers in suspension system.

OR

Explain design of Coil Spring. **[7]** b)

Q4) a)

[8]

[7]

What is suspension system and how it works in automobile. b)