Total No.	of Questions	:	8]	
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SEAT No.:	
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P3199

[5461]-239

[Total No. of Pages : 2

B.E. (Electrical Engineering) SMART GRID

(2012 Pattern) (Elective-IV(a)) (Semester-II) (End Sem.)

(2012 Pattern) (Elective-IV(a)) (Semester-II) (End Sem.)				
Time: 2½ Hours] [1		Max. Marks : 70		
Instructi	ions to the candidates:			
1)	Solve Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8.			
2)	Figures to the right side indicate full marks.			
3)	Neat diagrams must be drawn wherever necessary.			
4)	Assume suitable additional data, if necessary.			
Q1) a)	Define smart grid and its need.	[6]		
b)	Explain the concept vehicle to Grid.	[6]		
c)	Highlight on role of geographic information system in smart grid, also give its function.	and [8]		
	OR			
Q2) a)	Give present development and international policies in smart grid.	[6]		
b)	Write a note on, "Smart substation".	[6]		
c)	Explain how Smart Appliances can be the part of Smart Grid.	[8]		
Q3) a)	Explain microgrid architecture.	[8]		
b)	Discuss different Applications of micro grid.	[8]		
	OR			
Q4) a)	Explain about protection and control of microgrid.	[8]		
b)	Describe the concept and formation of Micro Grid.	[8]		
	I	? <i>T.O</i> .		

Q5)	a)	Explain EMC and its importance in smart grid.				
	b)	Describe the concept, power quality conditioners related to smart grid.	.[8]			
OR						
Q6)	a)	Describe Web Based Power Quality Monitoring.	[8]			
	b)	Explain the power quality audit and its importance in smart grid.	[8]			
Q7)	a)	Explain the concept related to smart grid.	[9]			
	b)	Write a note on Cyber Controlled Smart Grid.	[9]			
OR						
Q8)	a)	Explain the importance of Wi-Max based communication.	[9]			
	b)	Write a note on cloud computing.	[9]			

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