Total No. of Questions:	8]
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B.E. (Electrical Engineering) SMART GRID

		SMART GRID				
	(2012 Pattern) (Semester - II) (Elective - IV(a)) (End Sem.)					
		[Max. Marks ons to the candidates: Attempt Q1 or Q2, Q3 or Q4, Q5 or Q6 and Q7 or Q8. Figures to the right indicate full marks. Neat diagrams must be drawn whenever necessary. Assume suitable data, if necessary.	r:70			
Q1)	a)	Give present development and international policies in smart grid.	[8]			
	b)	Explain the concept Plug in Hybrid Electric Vehicles.	[6]			
	c)	Explain phase measurement unit and its importance in smart grid.	[6]			
		OR				
Q2)	a)	Explain the Resilient and self healing grid.	[8]			
	b)	Explain how automatic meter reading can make the system smarter.	[6]			
	c)	write a note on, "IED".	[6]			
(12)			[0]			
Q 3)		Explain concept of microgrid, and its need and application.	[8]			
	b)	Explain about protection and control of microgrid.	[8]			
		OR				
Q4)	a)	Explain about formation of microgrid and also its need.	[8]			
	b)	Explain architecture of microgrid.	[8]			
05))	Explain EMC and its importance in smart grid.	[Q]			
Q5)			[8]			
	b)	Explain Web based power quality monitoring.	[8]			
		OR				

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Q6) a)	High light the issues related to power quality in smart grid.	[8]
b)	Explain the power quality audit and its importance in smart grid.	[8]
Q7) a)	Explain cloud computing and its need.	[9]
b)	Explain the, concept WAN related to smart grid.	[9]
	OR	
Q8) a)	Write a note on Wi- Max based communication in smart grid.	[9]
b)	Explain the importance of Bluetooth in smart grid.	[9]



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