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SEAT No. :	
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APR.-17/B.E./Insem. - 42 B.E. (Electrical Engineering) SMART GRID

		SMART GRID	
		(2012 Pattern) (Semester - II) (Elective - IV)	
	Time:1 Hour] [Max. Marks: 30] Instructions to the candidates:		
	1) 2) 3) 4)	Solve Q1 or Q2, Q3 or Q4, Q5 or Q6. Figures to the right indicate full marks. Neat diagrams must be drawn wherever necessary. Assume suitable additional data, if necessary.	
Q1)	a)	Compare Conventional Grid and Smart Grid.	[5]
	b)	Write a note on Smart Grid pilot projects in India.	[5]
		OR	
Q2)	a)	Explian the concept of Resilient and Self Healing Grid.	[5]
	b)	State and explain the challenges for Smart Grid.	[5]
Q3)	a)	Explain the function of Intelligent Electronic Devices & their application for monitoring & protection.	or [6]
	b)	Name different Smart storage technologies, and explain any one in detail.	[4]
		OR	
Q4)	a)	Explain Phase Measurement Unit and its importance in smart grid. [[6]
	b)	How smart grid can be benefited by implementing PHEV technology?	[4]
Q5)	a)	What is the role of Advanced Metering Infrastructure (AMI) in Sma Grid?	arı [5]
	b)	State and explain briefly the components of Geographic Informatic System (GIS).	or [5]
		OR	
Q6)	a)	How outages can be managed by OMS?	[5]
	b)	Explain how Automatic Meter Reading can make the system smarter.	[5]