Total No.	of Questions	:	10]
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T.E. (Electrical)

ENERGY AUDIT AND MANAGEMENT (2012 Pattern) (Semester - II) (End Semester) (303150)

Time: 2½ Hours] [N			ks : 70		
Instructions to the candidates:					
	 Attempt Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8 and Q9 or Q10. Neat diagrams must be drawn wherever necessary. Figures to the right side indicate full marks. 				
	4) Use of Calculator is allowed.				
	5)	Assume Suitable data if necessary.			
Q 1)	a)	With suitable examples classify various energy resources.	[6]		
	b)	What are the objectives of Kyoto Protocol?	[4]		
		OR			
Q2)	a)	Explain concept of Green Building.	[4]		
	b)	Explain Indian and Global Energy scenario?	[6]		
Q3)	a)	Explain force field analysis in Energy Management.	[6]		
	b)	Discuss principles of successful energy management.	[4]		
		OR			
Q4)	a)	Explain DSM through power factor penalties.	[6]		
	b)	Explain role of renewable energy sources in energy management.	[4]		
Q5)	a)	Explain various steps in short term and long term energy audit.	[10]		
	b)	Explain Energy audit case study in steel industries.	[8]		
		OR			

Q6) a)	Explain various instruments used in energy audit.	
b)	Explain procedure involved in energy audit report writing.	[8]
Q7) a)	Explain energy conservation techniques in ventilation systems.	[8]
b)	Explain energy conservation techniques in Diesel Generators.	[8]
	OR	
Q8) a)	Explain energy conservation potential in electric motor and system.	drive [8]
b)	Explain energy conservation techniques in Utility industries.	[8]
Q9) a)	Explain various financial appraisal method used in economic analy energy conservation project.	sis of [8]
b)	Explain energy audit case study in I. T. sector.	[8]
	OR	
<i>Q10)</i> a)	Explain various costing techniques.	[8]
b)	Explain energy audit case study in municipal corporations.	[8]

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