Tota	al No	o. of Questions : 10] SEAT No. :			
P2	203	2	[Total No. of Pages : 2		
		[4858] - 1066	CS . 2		
		T.E. (Electrical) (End Semester)			
		Energy Audit and Management			
æ	•	(2012 Pattern) (Semester - II)	70		
		5 Hours] [Max. Marks] [Max. Marks]	: 70		
	1) 2) 3) 4) 5)	Attempt Q.1 or Q.2, Q.3 or Q.4 Q.5 or Q.6, Q.7 or Q.8. and Q.9 or Q.10. Neat diagrams must be drawn wherever necessary. Figures to the right indicate full marks. Use of calculator is allowed. Assume suitable data, if necessary.			
		<u>SECTION - I</u>			
Q 1)	a)	Explain Indian and Global Energy Scenario.	[4]		
	b)	What is energy conservation? Why it is important in India?	[6]		
		OR			
Q2)	a)	Explain principles of energy management.	[4]		
	b)	Explain duties of Energy Auditor under EC act - 2001.	[6]		
Q 3)	a)	Define supply side management (SSM). What are its Constraints?	[6]		
	b)	Explain features of automatic meter reading in utility energy management	nt.[4]		
		OR			
Q 4)	a)	Define energy management as per energy conservation act-2001. Demand side Management (DSM) is important in India?	Why [6]		
	b)	Explain DSM in agriculture sector.	[4]		

Q5) a) What are the types of energy audit? Explain in detail [10]

b) Energy audit case study of sugar factory. [8]

OR

Q6) a) Explain action plans for implementation of energy conservation options. [10]

b) Enlist and explain various instrumentation used in energy audit. [8]

P.T.O.

Q7)	a)	Explain various energy conservation opportunities in illumination are	ea.[8]
	b)	What is cogeneration? What are the advantages and disadvantage co-generation?	ges of [8]
		OR	
Q8)	a)	Explain energy conservation techniques in heating systems.	[8]
	b)	Explain energy conservation potential in electric motors.	[8]
Q9)	a)	Explain financial appraisal methods.	[8]
	b)	Explain energy audit case study in IT Industries.	[8]
		OR	
Q10))a)	Discuss the main objectives of carrying out sensitivity analysis. state the different factors that are considered for sensitivity analysis.	
	b)	Explain energy audit case study in Municipal corporations.	[8]

