Total No.	of Questions :10] SEAT No. :	
P2877		es :2
	[4958] - 1066	,
	T.E. (Electrical)	
ENERGY AUDIT AND MANAGEMENT (2012 Pattern) (End - Sem) (303150) (Semester - II)		
Instruction	ons to the candidates:	
1)	Solve Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8, Q9 or Q10.	
2)	Neat diagrams must be drawn wherever necessary.	
3)	Figures to the right indicate full marks.	
4)	Use of Calculator is allowed.	
5)	Assume suitable data, if necessary.	
Q1) a)	Give salient features of Electricity Act 2003.	[5]
b)	What are the responsibilities of energy manager under EC act 2001	?[5]
	OR	
()2) ()	Explain green building concept.	[5]
Q2) a)	Explain green building concept.	[5]
b)	Define supply side management (SSM). What is its barrier?	[5]
Q3) a)	Explain the principles of successful energy management.	[5]
b)	Explain structure of power factor penalties and incentives in tarif- demand control.	f for [5]
	OR	
Q4) a)	What is forced field analysis concept in Energy Management?	[5]

Explain utility side management avenues for management of power

P.T.O.

[5]

b)

network.

Q5) a) Define energy audit? Why energy audit is necessary? Describe two methods used in energy audit. [9]
b) Enlist and explain various instrumentation used for energy audit. [9]

OR

- Q6) a) What are Energy-Production, Specific energy consumption-production relationship? Explain least square method used for plotting these relationships.[9]
 - b) Explain action plans for implementation of energy conservation options.[9]
- Q7) a) Explain energy conservation measures in transmission and distribution system.
 - b) What is co-generation? Explain energy conservation measures in waste heat recovery system. [8]

OR

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- Q8) a) Explain various energy conservation measures in motor and drive systems.[8]
 - b) Explain energy conservation measures in agriculture pumping system.[8]
- **Q9)** a) Explain discounted cash flow methods of financial appraisal. [10]
 - b) Explain energy audit case study of an educational institute. [6]

OR

- Q10)a) What is sensitivity analysis? Discuss the main objectives of carrying out sensitivity analysis. What are the factors to be considered while carrying out sensitivity analysis?[10]
 - b) Explain energy audit case study in municipal corporations. [6]

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