Total 1	No. of Q	nestions: 10]	[Total No. of Prin	nted Pag	ges: 3	
Roll No					.com	
		EE/EX	-605(N)			
D E	(Cinth	Compaton) F	VAMINATION	Inno	2011	

B. E. (Sixth Semester) EXAMINATION, June, 2011 (Common for EE and EX Engg. Branch)

ENERGY CONSERVATION AND MANAGEMENT

Time: Three Hours

Maximum Marks: 100

Minimum Pass Marks: 35

Note: Attempt five questions in all. All questions carry equal marks.

- (a) What is energy audit? Describe in brief preliminary energy audit and detailed energy audit.
 - (b) Describe the role of energy manager for energy management in an organisation.

Or

- (a) Why there is always loss of energy in material flow?Discuss.
 - (b) What are the important parameters generally monitored during energy audit? Give the list of energy audit instruments.

[3]

- (a) Explain the significance of Second Law of Thermodynamics and entropy in energy conservation.
 - (b) Maintenace improves the energy conservation. Justify.

Or

- (a) Describe the significance of predictive and preventive maintenance in conservation of energy.
 - (b) Explain in brief energy efficient housekeeping and energy recovery in thermal systems.
- 5. (a) How energy can be stored in electrical and mechanical form? What are the requiremens of energy storage?
 - (b) What is time value of money? Give its importance.

Or

- (a) Discuss different types of tariffs used for charging the consumer of electric energy.
 - (b) How DSM can be achieved by load management? Explain.
- (a) Explain the ways for improving the efficiency of energy efficient drive.
 - (b) How energy conservation in transportation system can be achieved?

Or

- 8. (a) Discuss the advantage of improved power factor in power system. How this can be achieved?
 - (b) What is energy flow network?
- 9. (a) What are the factors which affect co-generation choice ?

- 10. Write short notes on any two of the following:
 - (a) Simulation and modelling
 - (b) Material load energy balance diagram
 - (c) Matrix chart
 - (d) Energy conservation process