

Reg. N	lo.	***************************************	
Name	:		

Eighth Semester B.Tech. Degree Examination, April 2015 (2008 Scheme)

08.801 : ENERGY MANAGEMENT (MPU)

Time: 3 Hours

Max. Marks: 100

Instruction: Answer all questions from Part A and one full question from each Module of Part B.

PART-A

- What are the difference between conventional power plant and non-conventional power plant?

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- 2. What are the various fuel options for a thermal power plant?
- 3. What are the significances of biomass as an energy source?
- 4. What are the basic procedures for conducting an energy audit?
- 5. Discuss the viability of LED lights over CFL lights.
- 6. What are the applications of fuel cells?
- 7. What do you mean by optimum performance of existing facilities?
- 8. How are the waste heat recovery systems classified?
- 9. Compare between renewable energy and non-renewable energy.
- 10. Mention four industries where cogeneration can be adopted. (10×4=40 Marks)

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PART-B

		Module – I	
11.	a)	Explain the working of floating roof biomass digester.	10
	b)	What are the advantages of nuclear power plants over thermal power plants?	10
12.	a)	Explain the working of a fluidized bed biomass gasifier.	10
	b)	What are the challenges of storing hydrogen as an energy source?	10
		Module – II	
13.	a)	How you conduct a detailed energy audit?	10
	b)	What are the recent energy conservation methods adopted by the Govt. of India?	10
14.	a)	How to formulate an energy management programme?	10
	b)	What is meant by star labeling? Give two examples.	10
		Module – III	
15.	a)	Explain the working of a gas turbine based cogeneration system.	10
	b)	What are the various waste heat recovery systems in a steam turbine power plant?	10
16.	a)	Discuss the possibility of cogeneration in an IT sector.	10
	b)	What are the ECO's that can be adopted in residential building?	10

What do you mean by optimum performance of existing facilities?