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Name:

Reg. No:

SEVENTH SEMESTER B.TECH. (ENGINEERING) (09 SCHEME) DEGREE
EXAMINATION, NOVEMBER 2016

ME 09 706 L25—ENERGY ENGINEERING AND MANAGEMENT

Time : Three Hours

Maximum : 70 Marks

Part A

Answer all questions.

1. What is meant by energy conservation ?
2. What is Energy index ?
3. What is meant by fluidized bed combustion ?
4. Define effectiveness of heat transfer equipment.
5. Name some Elements of EMIS.

(5 × 2 = 10 marks)

Part B

Answer any four questions.

6. What are the major forms of energy consumption in India ?
7. State are the Different types of Equipments used in energy surveys and explain their use.
8. Explain About Energy Conservation Practices In Furnaces.
9. Explain about heat recovery options available in boilers.
10. Discuss the advantages of fluidized bed boilers compared to conventional boilers.
11. Write short note on Energy saving revenue in break even chart and discuss.

(4 × 5 = 20 marks)

Part C

12. Explain hydroelectricity production with neat diagram.

Or

13. Discuss energy prices and energy policies.

Turn over

14. Explain the Energy Audit Scheme and Industrial Energy thrift Scheme with flow diagrams.

Or

15. Discuss energy conservation in thermal systems.

16. Discuss in detail heat pumps and refrigerators.

Or

17. Explain Insulated pipe work systems.

18. Discuss in detail about the Costing Techniques.

Or

19. Describe computerized energy management.

(4 × 10 = 40 marks)