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Roll No

EX-5005 (1) (CBGS)**B.E. V Semester**

Examination, December 2017

Choice Based Grading System (CBGS)**Energy Conservation and Management***Time : Three Hours**Maximum Marks : 70*

- Note:** i) Attempt any five questions.
ii) All questions carry equal marks.

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1. a) Why it is needed for energy conservation and management? 7
b) List the instrument which are used in energy auditing. 7
2. a) What are the different types of energy audit? Explain briefly? 7
b) Suppose you are a energy manager in your institute. Now explain how you will reduce energy consumption. 7
3. a) Maintenance improves the energy conservation Justify. 7
b) Explain waste heat recovery in industry. 7
4. What is demand side management? How DSM can be achieved by load management. 14

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5. a) Discuss the advantages of improved power factor in a power system. How this can be achieved? 7
b) How energy can be saved in transportation systems? 7

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6. a) Suggest some energy conservation measures for industries? 7
b) What is co-generation? Discuss its advantages. 7
7. Explain energy conservation process in the following: 14
a) Sugar industry
b) Textile industry
8. Write short note on (any two): 2×7=14
a) Energy efficient motors
b) Electrical tariff
c) Energy load curve
d) Payback period

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