

Roll No

EE/EX-605 (GS)**B.E. VI Semester**

Examination, May 2018

Grading System (GS)**Energy Conservation And Management***Time : Three Hours**Maximum Marks : 70**Note:* i) Attempt any five questions.

ii) All questions carry equal marks.

1. Enumerate different types of energy audit.
2. What is Energy Audit? Explain steps for Energy Auditing in any "Medium Scale Industry".
3. Explain in detail the process of Energy Audit in Large Air Conditioning system.
4. Give different Waste Heat Recovery methods adopted in Industries and thermal power plant.
5. What is "DSM" and how it helps in load management?
6. What is "Pay Back Period" and what is the significance of Risk Analysis in evaluating it?

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7. Explain how electric drives have improved energy efficiency in transportation.
8. Answer any four of the following:
 - a) Explain what is the significance of energy use patterns in energy conservation.
 - b) Explain irreversibility and second law of thermodynamics.
 - c) Explain load curves, load durative curves and their use in load management.
 - d) Give parameters of Energy Efficient Motors and how they improve its efficiency.
 - e) How the LED bulbs have changed the energy use pattern in General? Explain.
 - f) Give energy wastage in current sugar Industries.

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