

Roll No

EE/EX-605 (GS)

B.E. VI Semester Examination, June 2020

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. What are the various measures required for maximizing system efficiency and what do you understand by optimizing input energy requirement?

OR

What are the elements of monitoring and targeting system, explain them.

2. How energy can be stored in electrical and mechanical system?

3. What parameters are measured with the following instruments.

i) Pilot tube

ii) Power analyser

4. Explain how electric drives have improved energy efficiency in transportation.

5. Explain in detail the process of Energy Audit in Large Air Conditioning system.

6. Describe the significance of second law of thermodynamics and entropy in energy conservation.

7. Explain the energy policy with implementation example and importance.

OR

What is "DSM" and how it helps in load management?

8. Answer any four of the following:

a) Describe the role of an energy manager in an organization.

b) Explain waste heat recovery techniques in industry.

c) Describe depreciation. Explain the method used for calculating the depreciation.

d) Discuss the advantage of improved power factor in power system.

e) Define the energy conservation process.

f) Define cogeneration with suitable example.
