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Roll No

CM-801(C) (GS)

B.E. VIII Semester Examination, June 2020

Grading System (GS)

Energy Management in Processes

(Elective - III)

Time : Three Hours

Maximum Marks : 70

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

1. a) Define Energy Audit? State its importance. Discuss its types.
b) Explain how material and energy are interrelated. What do you mean by optimizing the Input Energy requirements?
2. What do you understand by Fuel submission and benefits of benchmarking in energy consumption?
3. What are the instruments of energy audit? For a distillery producing ethanol by fermentation process, write the steps of energy audit.
4. Discuss in details: Energy audit instruments with measuring parameter and procedure.
5. What do you mean by waste heat recovery? What are the advantages and applications of waste heat recovery?
6. Write a short note on
 - i) Benchmarking
 - ii) Force field analysis
7. What is clean development mechanism? Discuss and prove that clean development mechanism is an important tool for achieving sustainable development goals.

OR

Discuss energy conservation opportunities in electrical motors.

8. Write short note on following (any two):
 - a) Data and Information Analysis.
 - b) Prototype Carbon Fund (PCF).
 - c) ECO in Cooling Towers.
 - d) Heat Exchanger Networks.
