Roll	No		

EE-8003(1) (CBGS)

B.E. VIII SemesterExamination, June 2020

Choice Based Grading System (CBGS)

Renewable Energy Sources

Time: Three Hours

Maximum Marks: 70

Note: i) Attempt any five questions.

- ii) All questions carry equal marks.
- 1. a) What is meant by Renewable energy sources? Explain in brief these energy sources with special reference to Indian context.
 - b) Compare conventional and non conventional sources.
- 2. a) What is Energy management? Write the importance of energy planning in energy management.
 - b) Discuss the significance of renewable sources and their exploitation.
- 3. Write a short note
 - i) Factor influencing wind
 - ii) Wind spear monitoring and Blitz limits
- 4. a) Describe with a neat sketch the working of a wind energy conversion and its components.
 - b) Explain grid independent wind diesel system.
- 5. a) Explain types of solar calls and its fabrication.
 - b) Write down the approach for thermal electric system from solar energy.
- 6. a) Explain the principle of OTEC.
 - b) Write the merits, demerits and applications of Geothermal energy.
- 7. a) What are the various measuring devices used for energy management?
 - b) Write a short note on energy efficient motors.
- 8. Explain the following (any two):
 - a) Biomass engine driven generators
 - b) Characteristics of PV panels under varying insulation
 - c) Biomass energy and their characteristics
 - d) Magneto hydro generated energy
