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Roll No

ME-604(C)-CBGS

B.Tech., VI Semester

Examination, December 2020

Choice Based Grading System (CBGS)

Renewable Energy Technology

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

iii) In case of any doubt or dispute the English version question should be treated as final.

1. a) How do you measure Solar Radiation?
b) Explain the constructional features and working of solar Flat plate collector.
2. a) How many types of Semiconductors or Solar cells are used to fabricate PV cells and modules?

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- b) What are limitations of SPV system?
3. a) Derive the expression for Power developed due to wind.
- b) What prohibits large scale utilization of Wind power for electricity?
4. a) Explain a Wind diesel hybrid system.
- b) What is an Aerofoil? Explain it's types.
5. a) What is Biomass? How it is useful?
- b) Explain Biochemical conversion process.
6. a) Differentiate between Micro, Mini and Small hydro system.
- b) Explain the principle of Ocean thermal energy conversion.

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7. a) What are different types of Geothermal deposits?
- b) Discuss Hydrogen as a source of energy.
8. Write short notes on any two.
- a) Power curve of wind turbine
- b) Design of biogas plant
- c) Selection of turbine for hydro plant
- d) Fuel cell advantages

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