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## **EE-8003(1)-CBGS**

### **B.E. VIII Semester**

Examination, December 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 the methods of Energy audits?  
b) How we can save the Energy in power electronics drives?
2. a) Explain the Solar cell and characteristic of PV panels under varying insulation.  
b) Explain the biomass energy system and their characteristics.
3. a) Explain the grid connected hybrid system.  
b) Explain the small hydro grid connected system.
4. a) Explain the ocean energy generation system.  
b) Explain the magneto-hydro energy generation system.
5. a) Explain the principle of OTEC.  
b) What are the advantages of Nuclear Energy?
6. a) Discuss energy saving techniques.  
b) What are the elements which contribute to the cost of electricity.

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7. Explain the working of wind -diesel hybrid system with the help of neat sketch.
8. Write short notes on any two.
  - a) Types of wind mills
  - b) Biomass energy
  - c) MHD
  - d) Energy Audit

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