



(Pages : 2)

2462

Reg. No. :

Name :

ME

**Sixth Semester B.Tech. Degree Examination, May 2013
(2008 Scheme)
08.606.2 : (Elective II) NEW ENERGY SYSTEMS (MPU)**

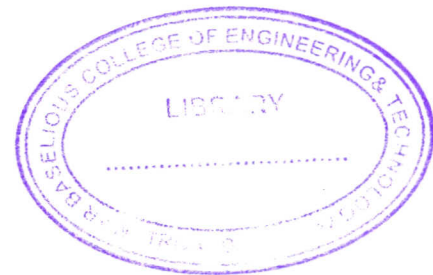
Time : 3 Hours

Max. Marks : 100

PART – A

Answer **all** questions. **Each** question in Part – **A** carries **4** marks.

1. Give the classification of energy systems.
2. What considerations are to be made in the selection of fuel for fuel cells ?
3. Explain the principle of photoelectric conversion.
4. What are the advantages and disadvantages of solar cells ?
5. Explain the limitations of renewable energy.
6. Write notes on solar cells.
7. Describe, briefly, the utilization of tidal power.
8. Discuss the applications of concentrating collectors.
9. Write notes on geothermal power.
10. Explain the principle of wind power generation.



P.T.O.

**PART – B**

Answer **one** question from **each** Module in Part – B. **Each** question in Part – B carries **20** marks.

Module – I

11. Describe a thermionic generator. Differentiate between thermionic and thermoelectric generations.
12. Give an account of practical fuel cells, highlighting their operating conditions.

Module – II

13. What is fusion reaction ? Describe a fusion reactor, highlighting the process used for plasma confinement.
14. Describe a setup for generating power from Ocean Thermal energy.

Module – III

15. What are the different types of geothermal energy ? Describe a setup for generation of power from geothermal energy sources.
 16. Explain, how methanol is produced. List the various applications.
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