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Total No. of Questions: 81

M.E./M.Tech., III Semester

Examination, November 2018

Energy Management

Time: Three Hours

Maximum Marks: 70

Attempt any five questions. Note: i)

- ii) All questions carry equal marks.
- Explain the operation wind energy system with a neat sketch.
 - Derive the expression for total radiation on an inclined surface. Show that horizontal surface receives no ground reflected radiation.
- Write short notes on Bio Mass and ocean energy.
 - Discuss briefly about the limitation of renewable energy sources.
 - What are the main applications of geothermal energy?
- Draw a neat sketch of solar flat plate collector and explain its working principle.

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Enumerate the different types of concentrating types of concentrating type collectors.

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Explain the construction and function of the lead acid cell. Explain energy management in chemical process plants. Describe the working of methanol fuel cell. 7 Explain the principle of operation of hydrogen-oxygen fuel cell. Explain polarization in fuel cell. 7 Explain factors affecting bio digestion for biomass. 7 Explain reversible cell and irreversible cells. 7 Distinguish between fuel cells and a battery. 7 List out some of the advantages of solar thermal energy. 7 Explain gaseous bio fuels conversion techniques. 7

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