

ME-602**B.E. VI Semester**

Examination, June 2017

Power Plant Engineering**Time : Three Hours****Maximum Marks : 70**

- Note:** i) Attempt any five questions.
 ii) All questions carry equal marks.
 iii) Assume missing data suitably, if any.
 iv) Draw neat and clean sketches/diagrams/figures wherever required.

1. Discuss the working principle and applications of Thermoelectric Module.
2. Discuss the working principle and applications of MHD Convertor.
3. Explain various fuel burning systems.
4. State the function of cooling tower. Discuss its types.
5. Discuss important nuclear fuels in details.
6. Draw a neat layout showing important elements of a nuclear power plant. State function of each element.

7. Draw a neat layout of hydro power plant. State function of each element.

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8. Answer any four of the following:

- a) Classify the methods of converting various energy sources.
- b) Discuss basic principles of siting and station design for thermal power plant.
- c) List safety and reliability features of nuclear power plant.
- d) Discuss flow duration curve in hydrology.
- e) Define load factor. State its significance.
- f) What is diversity factor? Define maximum demand.

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