Code: ME8T1

IV B. Tech - II Semester - Regular Examinations - April 2016

POWER PLANT ENGINEERING (MECHANICAL ENGINEERING)

Duration: 3 hours

Max. Marks: 70

Answer any FIVE questions. All questions carry equal marks

- 1. Explain the working of different circuits of a thermal power plant with a general layout.

 14 M
- 2. a) Describe the working of Electrostatic precipitator dust collection in a Stream Power plant. 7 M
 - b) Explain briefly different methods used to treat feed water.

 7 M
- 3. Explain briefly the working of different systems of a diesel power plant with diagrams.

 14 M
- 4. a) Explain the working of an open cycle Gas Turbine Plant.

 9 M
 - b) List the advantages of combined cycle power plant. 5 M
- 5. a) What do you understand by pumped storage plants? 5 M

- b) Describe the working of pumped storage power plant and mention their merits and demerits.

 9 M
- 6. Explain the working of a fuel cell and list out its advantages over the other systems of power generation. 14 M
- 7. a) How nuclear reactors are classified? 5 M
 - b) Describe the working of pressurized water reactor with neat sketch.

 9 M
- 8. Explain the pollution caused due to power plant. How it can be controlled?