

R7

Code: R7410311

B.Tech IV Year I Semester (R07) Supplementary Examinations, May 2013

POWER PLANT ENGINEERING**(Mechanical Engineering)**

Time: 3 hours

Max Marks: 80

Answer any FIVE questions
All questions carry equal marks

- 1 Explain the various factors that are considered in selecting a site for big thermal power plants.
- 2 What are the requirements of the burners used for firing pulverized coal? Describe the various types of burners used and their relative merits and demerits.
- 3 Draw a neat diagram of a fuel storage and fuel supply system used for a diesel power plant. What are the advantages of underground fuel storage?
- 4 What do you understand by a closed cycle gas turbine plant? List out its advantages over open cycle plant.
- 5 What do you understand by pump storage plant? What are the advantages and limitations of this plant? Where can such schemes are best applied?
- 6 Explain in detail the factors to be considered in selecting a suitable site for tidal power plant.
- 7 What do you understand by breeding? Explain in detail the factors which govern the breeding.
- 8 Explain the various methods adopted to control the nuclear pollution.
