

B.E Mechanical sem-II
May-June-2012

Total No. of Questions : 12]

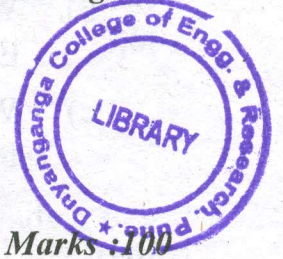
SEAT No. :

P1350

[Total No. of Pages : 3

[4164] - 441

B.E. (Mechanical Engg.)
POWER PLANT ENGINEERING
(2008 Pattern) (Sem.-II)



Time : 3 Hours]

[Max. Marks : 100

Instructions to the candidates :

- 1) Answer 3 questions from Section - I and 3 questions from Section - II.
- 2) Answers to the two sections should be written in separate books.
- 3) Neat diagrams must be drawn wherever necessary.
- 4) Figures to the right indicate full marks.
- 5) Use of logarithmic tables slide rule, Mollier charts, electronic pocket calculator and steam tables is allowed.
- 6) Assume suitable data, if necessary.

SECTION - I

Unit-I

- Q1) a) What are the different types of power plants where electricity is produced in bulk quantities? Why electricity is the most convenient form of energy. [6]
- b) What are the factors you will consider for locating the conventional base load thermal power plants? [10]

OR

- Q2) a) What do you understand by radioactive decay? What are radioisotopes? Explain. [4]
- b) What do you mean by half life? Why are half lives regarded as fingerprints of radioisotopes? [4]
- c) Explain the characteristic features of a BWR. Explain with a neat sketch with advantages and disadvantages of BWR. [8]

Unit-II

Q3) Write short notes on:

- a) Mechanical stokers used in thermal power-plants. Explain any one with sketch.
- b) Fluidized Bed Combustion boilers.
- c) Ash handling system. [3 × 6 = 18]

OR

P.T.O.

