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Total Pages: 3

BT-8/M-20

38051

POWER PLANT ENGG.

Paper-ME-404E

Option-II

Time Allowed: 3 Hours] [Maximum Marks: 100

Note: Attempt **five** questions in all, selecting at least **one** question from each Unit.

UNIT-I

- 1. (a) Explain the working of solar power plant, also mention its salient features.
 - (b) Describe the various energy sources in India. 20
- 2. (a) Draw a schematic diagram of Hydro plant and explain its operation. 12
 - (b) Explain the following:
 - (i) Hydrographs
 - (ii) Rain fall.

8

UNIT-II

3. (a) Describe the general layout for the thermal power plant and discuss the working of each major component in it.

12

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- (b) Write short notes on the following:
 - (i) Air preheaters
 - (ii) Super heaters.

8

- 4. (a) Discuss various systems of diesel power plant.
 - (b) Explain the super charging of Diesel engines.
 - (c) Give the advantages and disadvantages of Diesel Plant over Thermal Power plant. 20

UNIT-III

- 5. (a) What is function of moderator in Nuclear Power Plant, name the three moderators used in it?
 - (b) (i) Define the term Breeding.
 - (ii) Explain the working of pressurized water reactor nuclear power plant with its advantages and disadvantages.12
- 6. (a) Explain the purpose of heating, regeneration and intercooling in gas power plants. 14
 - (b) Write short note on the Gas Power characteristics.

UNIT-IV

- 7. (a) Explain the term Depreciation and discuss various methods of calculating the depreciation of an electrical plant.
 - (b) Explain the load curves and load duration curves.
- 8. (a) What is tariff? Discuss two part tariff and three part tariff with suitable example.
 - (b) Describe load division among generators. 20