



- Notes :
1. All questions carry marks as indicated.
 2. Solve Question 1 OR Questions No. 2.
 3. Solve Question 3 OR Questions No. 4.
 4. Solve Question 5 OR Questions No. 6.
 5. Solve Question 7 OR Questions No. 8.
 6. Solve Question 9 OR Questions No. 10.
 7. Assume suitable data whenever necessary.
 8. Illustrate your answers whenever necessary with the help of neat sketches.

1. a) A generating station has the following daily load cycle: 7

Time (Hours)	0-6	6-12	12-14	14-18	18-24
Load (MW)	40	90	70	100	30

Draw the load curve and find.

- i) Maximum demand,
- ii) Units generated per day,
- iii) Average load,
- iv) Load factor,
- v) Capacity of plant and
- vi) Plant Capacity Factor.

- b) Define the following, 7

- i) Connected Load,
- ii) Maximum Demand,
- iii) Plant Capacity Factor,
- iv) Load Factor,
- v) Utilization Factor.

OR

2. a) What is Tariff? Explain any one method of Tariff. 7

- b) What is load curve? Give its significance. 7

3. a) Explain with neat diagram General layout of thermal power plant. 7

- b) Write a short note on Condensers. 7

OR

4. a) Explain Rankine cycle and its modification with neat diagram. 7

- b) Explain Boilers that are used in thermal power plant. 7

5. a) What is necessity of feed water treatment? Explain different impurities in water. 7
b) Describe coal handling system in thermal power plant. 7

OR

6. a) What is principle of Co-generation, explain any one cogeneration system. 7
b) What is a Draught system, explain any one draught system in detail. 7
7. a) Explain with neat sketch hydroelectric power plant. 9
b) While selecting suitable site for hydroelectric power plant which factors should be taken into consideration. 5

OR

8. a) Classify hydroelectric power plants in detail. 9
b) What is meant by hydrology? Also state its importance. 5
9. a) Explain the basic components of nuclear reactor. 7
b) Explain layout of nuclear power plant. 7

OR

10. Write short note on **any two**. 14
i) Gas cooled reactor.
ii) Nuclear fission.
iii) Nuclear waste disposal.
