

Question Bank K(scheme)

Name of subject: POWER PLANT Engineering

Unit Test.1

Course: ME

Semester :V

Chapter No.1 Fundamental of Power Plant (2Marks)

1. List the types of fuels?
2. What is IBR?
3. List any two important provisions of the Indian Boiler Regulations (IBR).
4. List any two factors affecting site selection for a steam power plant.
5. Name any four types of power plant.
6. Define power plant.

Chapter No.1 Fundamental of Power Plant (4Marks)

1. Discuss the energy scenario in India,
2. Explain the global energy scenario.
3. Write a short note on "Importance of Power Plants".
4. State the factors considered while selecting a site for a steam power plant.
5. List any four factors affecting site selection for a steam power plant.
6. What is IBR? State its purpose.
7. Explain the IBR norms applicable to steam power plant boilers.
8. List any four important provisions of the Indian Boiler Regulations (IBR).
9. Why is IBR certification necessary for boilers in a steam power plant?
10. Classification of Power Plant?
11. State the types of power plants.

Chapter No.2 Modern Steam Power Plant (2Marks)

1. Draw a layout of solid fuel (coal) handling system used in steam power plant.
2. State the principle of FBC.
3. Draw schematic diagram of boiler feed water control system.
4. State the purpose of bucket conveyor.
5. How are the FBC boilers classified?
6. What is the function of superheater in steam power plant?
7. What role does an economiser play in steam power plant?
8. Describe the function of a feed pump in a boiler system.
9. What is a steam trap and name its main type?
10. State type of ash produced in a steam power plant?
11. Name any two types of steam traps.
12. State the different fuel handling system in steam power plants.

Chapter No.2 Modern Steam Power Plant (4Marks)

1. Draw a layout of 'Steam Power Plant'.
2. State any four advantages of steam power plant.
3. Explain with neat sketch electro-static precipitators.
4. Explain fuel handling systems in 'Steam Power Plant'.
5. Give details of Belt conveyer. Mention advantages and disadvantages.
6. Explain with neat sketch, working principle of Fluidized Bed Combustion (FBC) boiler
7. Explain the purpose of an air preheater.
8. Explain the working any one types of steam traps used in steam systems.
9. What is a ball mill and how does it pulverize coal?