

Govt. Engineering College, Jhalawar

B.tech. (Mechanical Engineering) 6th Sem.

Sub: Steam Engineering

Modal Paper

1. Write Down the classification of boilers.
2. What is water tube boiler? Explain Babcock and Wilcox Boiler water tube boiler with neat sketch. Give the neat sketch of sterling boiler.
3. What is fire tube boiler? How it is different from water tube boiler? Explain with neat diagram of HRT and NESTLER boiler.
4. Give the name of different accessories of boiler. Give their arrangement with neat diagram.
5. Explain the heat absorption cycle in water tube boiler. Draw T-S diagram and write down the formula of efficiencies of different parts.
6. Draw neat and labeled diagram of followings:-
 - a) Benson boiler
 - b) Velox boiler
 - c) Loffier boiler
 - d) Monotube boiler
 - e) Lamount boiler
7. What is high Pressure boiler? Give the advantages of high pressure boilers.
8. Explain the difference between natural and forced circulation boiler with neat sketch. What is water wall?
9. Name the steam drum internals. And also give their applications with the neat diagram.
10. Explain with the help of neat diagram:-
 - a) Super heater
 - b) Economizer
 - c) Air preheater
11. Explain induced, forced and balanced draught boilers.
12. How a Fluidized Bed boiler works? Explain with help of neat diagram.