

STEAM POWER AND GENERATION QUESTION BANK

- Q.1 What is Boiler? Explain the working of boiler?
- Q.2 What are the mountings and accessories in boilers? Write various mountings and accessories used in boilers?
- Q.3 What is boiler drought? Explain various types of drought in boilers?
- Q.4 Write a short note on equivalent evaporation? Also write how we can increase the boiler efficiency?
- Q.5 What do you mean by Induced drought? How it is created?
- Q.6 Why fire tube boilers are not in used?
- Q.7 Difference between horizontal and vertical boiler?
- Q.8 What do you mean by Boiler efficiency? How it is increased?
- Q.9 What do you mean by calorific value of fuel? Also write their unit?
- Q.10 Various types of fuel used in boiler? Also tells about their calorific values?
- Q.11 What kind of drought used in boiler chimney? Explain with neat sketch?
- Q.12 Difference b/w forced drought and induced drought with the help of diagram?
- Q.13 Give the classification of boiler? And discuss fire tube and water tube boiler with the help of diagram?
- Q.14 What is Atmospheric Circulating Fluidized Bed Combustion (CFBC) boiler? Explain with the help of diagram?
- Q.15 Define the following terms:-
- Equivalent Evaporation
 - Fuel bed combustion
 - Feed Pump
 - Economizer
- Q.16 Drive the equation of chimney height? A new chimney is needed for a plant burning coal and emitting 127kg sulphur dioxide per hour. Calculate uncorrected chimney height.
- Q.17 Discuss various processes related to boiler water treatment? Why deaeration is necessary before feeding the water in the boiler?
- Q.18 Explain construction and working of Babcock and Wilcox boiler with the help of neat diagram? Write their advantages and disadvantages and their applications?
- Q.19 List out the major advantages of high pressure boilers in modern thermal power plants.
- Q.20 What is the function of economizer?
- Q.21 What are the modern trends in generating steam of high pressure boiler?
- Q.22 What are types of fluidized bed boilers?

- Q.23 What are all the features of the high-pressure boilers?
- Q.24 What is cooling tower approach?
- Q.25 What the advantages of burning coal are in pulverized form?
- Q.26 Explain the construction and working of Steam power plant with a layout.
- Q.27 Why are feed water heaters used?
- Q.28 Explain with a sketch the working of a Barometric condenser?
- Q.29 Discuss the relative merits of different out plant coal handling.
- Q.30 Explain the construction and working of any one High pressure boiler with a layout