

158/2015

Maximum : 100 marks

Time : 1 hour and 15 minutes

1. In the fire tube boilers :
 - (A) The hot gases pass through tubes and water surrounds the tubes
 - (B) The water passes through the tubes and hot gases surround the tubes
 - (C) Fire surrounds the tubes and water passes in the tubes
 - (D) All of the above

2. Lancashire boiler is :
 - (A) Internally fired boiler
 - (B) Externally fired boiler
 - (C) Forced circulation boiler
 - (D) Water tube boiler

3. Which of the following is a fire tube boiler?
 - (A) Stirling boiler
 - (B) Babcox and Wilcox boiler
 - (C) Velox boiler
 - (D) Locomotive boiler

4. Natural circulation type boiler works on the principle of :
 - (A) Differential density of hot and cold water
 - (B) Differential density of hot and cold water at chimney
 - (C) Natural draught system with Chimney
 - (D) None

5. In locomotive boiler maximum pressure is the order of :
 - (A) 5 bar
 - (B) 10 bar
 - (C) 20 bar
 - (D) 100 bar

6. Which of the following are classified as high pressure steam boiler?
 - (A) Loeffler boiler
 - (B) Benson boiler
 - (C) La mont boiler
 - (D) All of the above

7. Stirling steam boiler has:
 - (A) One steam drum, two water drums
 - (B) Two steam drums, two water drums
 - (C) Three steam drums, two water drums
 - (D) No drums

8. Equivalent evaporation as referred to steam generators is :
- (A) Quantity of steam produced per kg of fuel
 - (B) Quantity of steam produced from water at 100° C to dry saturated steam at 100°C
 - (C) Quantity of steam produced from water at ambient conditions to dry saturated steam at rated pressure of boiler
 - (D) None of the above
9. Which of the following boilers used LPG as fuel?
- (A) Manning boiler
 - (B) Integral furnace boiler
 - (C) BENT tube boiler
 - (D) All of the above
10. Which of the these boilers works in the temperature range below 100°C :
- (A) Integral furnace boiler
 - (B) Stirling boiler
 - (C) Waste heat boiler
 - (D) All of the above
11. The functions of the following fitting is to extinguish boiler furnace fire in case of water level falling below safe level :
- (A) Feed check valve
 - (B) Blow off cock
 - (C) Safety valve
 - (D) Fusible plug
12. Which of these safety valves is used in locomotive and marine engines?
- (A) Dead weight safety valve
 - (B) Spring loaded safety valve
 - (C) Lever safety valve
 - (D) All of the above
13. Which of these boiler fitting is used to control the supply of water to the boiler and to prevent the escaping of water from the boiler when the pump pressure is less?
- (A) Feed check valve
 - (B) Stop valve
 - (C) Safety valve
 - (D) Blow off cock
14. The function of the following fitting in boiler is to regulate the flow of steam from one steam pipe to other :
- (A) Feed check valve
 - (B) Safety valve
 - (C) Blow off cock
 - (D) Stop valve
15. The function of the following fitting in a boiler is to prevent the pressure exceeding the maximum limit :
- (A) Feed check valve
 - (B) Blow off cock
 - (C) Safety valve
 - (D) Fusible plug