

6. What are the types of Boiler preservation? Discuss in detail each method and distinguish advantages and disadvantages. 16
7. a) What are the analysis done on Boiler flue gas in environment point of view and performance point of view? 6  
 b) What is proximate analysis and ultimate analysis? Why it is required to be analyzed? 10
8. a) What are the methods of speed control used in BFP for energy saving? Discuss advantages and disadvantages of them? 8  
 b) Explain about De-aerator 8
9. Answer any Four of the following 16
- a) Discuss about Steam Purity  
 b) Priming and Foaming  
 c) Explain Heat Rate and Specific steam consumption  
 d) Give material specifications of carbon steel and alloy steel pipes used for steam pipeline  
 e) Briefly discuss about Boiler 'blow down' and '% blow down'  
 f) Erosion and distortion of tubes in boiler  
 g) Blending of coal