**PROBABLE QUESTIONS OF POWER PLANT ENGINEERING**

**6TH SEMESTER MECHANICAL ENGG**

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1. Differentiate between the captive power plant and central power plant ?

2. Explain various sources of energy ?

3. Draw the Layout of a steam power plant mentioning all components in details ?

4. Define specific steam consumption ?

5. Explain Rankine cycle with P-V, T-S diagram and find out thermal efficiency and work ratio ?

6. Differentiate between accessories and mountings of boiler ?

7. Write down various draught systems used in a thermal power plant ?

8. Why compounding of steam turbine is necessary and mention various types of compounding ?

9. Write down the function and classification of condensers ?

10. In which way, artificial cooling towers are different from natural cooling towers ?

11. Compare between a nuclear power plant and a thermal power plant ?

12. What are the various components of a nuclear power plant ?

13. Explain how nuclear waste is disposed of ?

14. Explain the cooling system used in a diesel power plant ?

15. Describe different methods of improving thermal efficiency of a gas turbine power plant ?

16. State the advantages of disadvantages of hydroelectric power plant ?

17. State and advantages of pulverized fuel system ?

18. What is the objective of feed water heating in a steam power plant ?

19. What do you mean by back pressure turbine and in which condition this is used ?

20. What is regeneration and explain how the efficiency of regenerative cycle will approach the efficiency of carnot cycle ?

21. Explain thoroughly the effects of nuclear radiation ?

22. Explain in detail about cooling system and lubrication system of a diesel power plant ?

23. Explain hydraulic power plant based on different aspects ?

24. Write down differences between a hydel power plant and a thermal power plant ?