**PROBABLE QUESTIONS OF THERMAL ENGINEERING-II**

**4TH SEMESTER MECHANICAL ENGG**

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1. Explain steam power plant with its layout?
2. Explain Carnot vapor cycle with neat sketch?
3. Explain Rankine vapor cycle with neat sketch?
4. What are the qualities of ideal working fluid for vapor power cycle?
5. Explain Binary vapor cycle with neat sketch?
6. Explain the concept of IC engines?
7. Explain Otto vapor cycle with neat sketch?
8. Explain Diesel vapor cycle with neat sketch?
9. Explain Dual vapor cycle with neat sketch?
10. Differentiate between 2s and 4s engines?
11. Define hydrocarbon fuels?
12. Explain the different combustion reactions?
13. Define enthalpy of formation?
14. Define heating values for fuels?
15. Define Octane and Cetane number?
16. Explain the different modes of heat transfer?
17. Define Fourier law of heat conduction?
18. Explain the concept of heat exchangers?
19. Explain the concept of refrigerators and heat pumps?
20. Explain ideal vapor refrigeration cycle with neat sketch?
21. Explain actual vapor refrigeration cycle with neat sketch?
22. Explain gas refrigeration cycle?
23. Define convection and radiation?
24. Define Kirchhoff’s law?
25. Define enthalpy of reaction?