

UNIT-I

1. Explain with the help of neat diagrams a regenerative cycle. Derive an expression for its thermal efficiency.
2. In a regenerative cycle the inlet conditions are 40 bar and  $400^{\circ}\text{C}$  steam is bled at 10bar in regenerative heating. The exit pressure is 0.8bar neglecting pump work determine the efficiency of the cycle.
3. Describe the different processes of rankine cycle. Derive the expression for its efficiency and show then on p-v and T-s diagrams.
4. A simple rankine cycle works between pressure of 30bar and 0.04bar the initial condition of steam being dry saturated calculate the cycle efficiency, work ratio and specific steam consumption.
5. Explain with the help of neat diagrams of a carnot cycle. Derive the expression for its efficiency and show p-v and T-s diagrams.
6. In a reheating rankine cycle steam is supplied to a turbine at  $6\text{MN/m}^2$  and a temperature of  $450^{\circ}\text{C}$ . It is expanded in the first stage to a pressure of  $1\text{MN/m}^2$ . The steam is then passed back to the boiler in which it is reheated of  $1\text{MN/m}^2$  to  $370^{\circ}\text{C}$ . It is then passed to the turbine to be expanded in the second stage down to a pressure of  $0.2\text{MN/m}^2$ . The steam is again reheated to  $320^{\circ}\text{C}$  at this pressure. It is send to turbine for the last stage expansion to a condenser pressure of  $0.02\text{MN/m}^2$ . Using enthalpy – entropy chart for steam determine (i) The total theoretical power produced per kg of steam (ii)The thermal efficiency of the cycle, considering pump work (iii) The thermal efficiency of the cycle assuming single stage expansion with no reheat and considering pump work.

# Thermal Engineering Question Bank

**M Tight**



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