

16. a) Compare Roots blowers with vane blower in respect to
i) Working principles ii) P-V diagram iii) Efficiency.
- b) A gas turbine plant receives air at a pressure of 1 bar and 290K. The air is then compressed in a rotary compressor to a pressure of 4 bars and then heated to a temp of 840K. The isentropic efficiencies of compressor and turbine are 82% and 85% respectively. Neglecting the pressure drop, find overall efficiency of the plant.

MODULE-IV

17. a) Derive an expression for the COP of Bell- Coleman cycle?
- b) A Carnot refrigerator and a heat pump are supplied with equal amount of work. The refrigerator operates between -270°C and $+270^{\circ}\text{C}$ and the heat pump operates between $+450^{\circ}\text{C}$ and $+270^{\circ}\text{C}$. The refrigerator absorbs 4000 kJ/ min at -270°C . The heat pump absorbs all the heat rejected by the refrigerator and supplies at 450°C . Compute
- (i) COP of refrigerator
 - (ii) COP of heat pump
 - (iii) Heat available at $+450^{\circ}\text{C}$ and
 - (iv) Work input to each unit
18. a) Write short note on: i). Ozone depletion ii). Global warming.
- b) An auditorium of 100 seating capacity of conditioned for the given specifications
Outdoor conditions - 35 and 65% RH; Required air inlet conditions - 15°C and 40 RH.
The required condition is achieved first by cooling and dehumidifying, and then by heating.
Find the following (a) The capacity of the cooling coil in tons of refrigeration
(b) Capacity of the heating coil in kW
(c) By-pass factor of the heating coil if the surface temp of the coil is 22°C .

Mechanical Technology Question Paper 2014

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