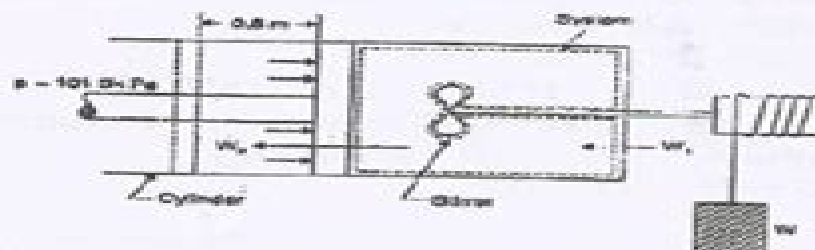




PART - B

(5×13=65 Marks)

11. a) i) State first law of thermodynamics and specify its applications. (3+2)
 ii) A piston and cylinder machine containing a fluid system has a stirring device as shown in Fig.



The piston is frictionless, and it is held down against the fluid due to atmospheric pressure of 101.3 kPa. The stirring device is turned 9500 revolutions with an average torque against the fluid of 1.25 Nm. Meanwhile the piston of 0.65 m diameter moves out 0.6 m. Find the network transfer for the system.

(OR)

(8)

- b) i) Prove that for a steady flow system with negligible change in kinetic and potential energy, the shaft work per kg can be expressed as $W_s = - \int v dp$ (5)
 ii) A working substance flows at a rate of 5 kg/s into a steady flow system at 6 bar 2000 kJ/kg internal energy and 0.4 m³/kg specific volume with a velocity of 300 m/s. It leaves at 10 bar, 1600 kJ/kg of internal energy, 1.2 m³/kg of specific volume with a velocity of 150 m/s. The inlet is 10 m above the outlet. The work transfer to the surroundings is 3 MW. Evaluate the change in enthalpy and estimate the heat transfer and indicate the direction. (8)
12. a) Draw the Carnot cycle on p-V and T-s Diagram to derive its efficiency and explain the major inference from Carnot cycle efficiency. (3+3+4+3)
 (OR)
 b) Two Carnot engines work in series between the source and sink temperatures of 550 K and 350 K. If both engines develop equal power, draw the schematic and label them properly and also determine the intermediate temperature. (3+2+8)
13. a) Draw the p-v-T surface for a normal substance and explain the formation of the superheated steam from ice at constant pressure. (8+5)
 (OR)
 b) A pressure cooker contains 1.5 kg of saturated steam at 5 bar. Find the quantity of heat which must be rejected so as to reduce the quality to 60% dry. Determine the pressure and temperature of the steam at the new state. (7+3+3)

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