

- 5 a. Obtain an expression for the volumetric efficiency of a single stage air compressor in terms of the pressure ratio, clearance and 'n' the exponent of expansion and compression. (06 Marks)
- b. Why intercooling is necessary in multistage compression? (04 Marks)
- c. A single stage, double acting air compressor is required to deliver 14 m^3 of air per minute measured at 1.013 bar and 15°C . The delivery pressure is 7 bar and the speed is 300 rpm . Take the clearance volume as 5% of the swept volume with a compression and reexpansion index of $n = 1.3$. Calculate the swept volume of the cylinder, the delivery temperature and the indicated power. (10 Marks)
- 6 a. Explain the effect of super heat and subcooling on the vapour compression refrigeration cycle. (06 Marks)
- b. What is an absorption refrigeration cycle? How does it differ from a vapour compression cycle? (08 Marks)
- c. A $5 \text{ ton R} - 12$ refrigeration plant has saturated suction temperature of -5°C . The condensation takes place at 32°C . Assuming isentropic compression, find i) COP of the plant ii) Mass flow rate of refrigerant iii) power required to run the compressor in kW. Take the following properties of R - 12

P_{bar}	$T_{\text{°C}}$	$h_{f,kJ/kg}$	$h_{g,kJ/kg}$	$S_{g,kJ/kgK}$
7.85	32	130.5	264.5	1.542
2.61	-5	—	249.3	1.557

Take C_p (super heated vapour) = 0.615 kJ/kgK

(06 Marks)

- 7 a. Distinguish between :
 i) Specific humidity and relative humidity
 ii) Dry bulb temperature and wet bulb temperature iii) Dry air and atmosphere air. (06 Marks)
- b. With a neat sketch describe the working of summer air conditioning system for hot and dry weather. (07 Marks)
- c. The dry and the wet bulb temperatures of atmosphere air at 1 atm (101.325 kPa) pressure are measured with a sling psychrometer and determined to be 25 and 15°C respectively. Determine - i) Specific humidity ii) relative humidity iii) The enthalpy of air. (07 Marks)

- 8 a. A four stroke four cylinder petrol engine was tested at full throttle speed. The following were the power measured during Morse test.

With all cylinders working	=	14.7 kW
With number 1 cylinder cutoff	=	10.1 kW
With number 2 cylinder cutoff	=	10.3 kW
With number 3 cylinder cutoff	=	10.2 kW
With number 4 cylinder cutoff	=	10.4 kW

The bore and stroke of each of the cylinder are 80 mm and 100 mm respectively. The Clearance volume of the cylinder is 100 cc . The fuel is consumed at the rate of 5.44 kg/hr . If the calorific value of the fuel is 41900 kJ/kg , determine -

- i) Mechanical efficiency ii) Indicated thermal efficiency iii) Relative efficiency with reference to brake thermal efficiency. (10 Marks)
- b. The following data were recorded during a test on a single cylinder four stroke oil engine. Bore = 150 mm , stroke = 300 mm , Speed = 18000 revolutions per hour, Brake torque = 200 N-m , indicated mean effective pressure = 7 bar , fuel consumption = 204 kg/hr , cooling water flow rate = 5 kg/min , cooling water temperature rise = 30°C , Air-fuel ratio = 22 exhaust gas temperature = 410°C , Specific heat of exhaust gases = $1.0 \text{ kJ/kg } ^\circ\text{C}$, room temperature = 20°C , calorific value of fuel = 42 MJ/kg . Determine i) Mechanical efficiency ii) BSFC and draw the heat balance sheet on minute basis and percent basis. (10 Marks)

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