

- b) A cylinder 8cm in diameter and 1.2m high having a surface temperature of 50°C is placed vertically in water at 15°C . Find the heat transfer from the cylinder per hour.

MODULE-II

13. a) With the help of diagram and working cycle, explain the working of a 4-stroke cycle diesel engine.
b) The following readings were obtained from a test on a single cylinder oil engine working on the four stroke cycle.

Area of indicator diagram= 4.1 cm^2 , length of indicator diagram= 6.25cm , indicator spring rating= 0.9mm , cylinder bore and stroke= 105mm & 150mm , respectively, mean diameter of brake wheel= 0.6m , brake load= 18kg , spring balance reading= 3kg , engine speed= 480rpm . Calculate: (a) brake power, (b) indicated power, and (c) mechanical efficiency.

14. a) Derive an expression for LMTD of parallel flow heat exchanger.
b) In a double pipe heat exchanger hot fluid is entering at 220°C and leaving at 115°C . Cold fluid enters at 10°C and leaves at 75°C . Mass flow rate of hot fluid 100 kg/hr , C_p of hot fluid $4.62\text{ kJ/kg}^{\circ}\text{C}$, C_p of cold fluid $4\text{ kJ/kg}^{\circ}\text{C}$. Calculate LMTD
i) If the flow is parallel
ii) If the flow is counter current.
iii) Find the mass flow rate of cold fluid if the heat loss during the exchange is 5%.

MODULE-III

15. a) Explain what is meant by volumetric efficiency of a compressor. Derive an expression for volumetric efficiency of a single stage air compressor.
b) 2-stage compressor delivers air at a rate of 1.5 kg/sec , the suction pressure is 1.013bar . The inter-stage pressure is 7bar and the delivery pressure is 45bar . Air enters the low-pressure cylinder at 280K and is inter cooled to 300K before inlet to the high pressure cylinder and delivers at 420K . The clearance volume of low pressure and high cylinders are 6% and 8% of the stroke volume. Assume law of compression and expansion same for low and high pressure cylinder.

Determine i). Swept volume of cylinder ii). Amount of heat removed in jacket cooling for each cylinder iii). The ideal power required to drive the compressor.

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Lingjun Ying



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