

- b) A cylinder 8cm in diameter and 1.2m high having a surface temperature of  $50^{\circ}\text{C}$  is placed vertically in water at  $15^{\circ}\text{C}$ . 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= $4.1\text{ cm}^2$ , length of indicator diagram= $6.25\text{cm}$ , indicator spring rating= $0.9\text{mm}$ , cylinder bore and stroke= $105\text{mm}$  &  $150\text{mm}$ , respectively, mean diameter of brake wheel= $0.6\text{m}$ , brake load= $18\text{kg}$ , spring balance reading= $3\text{kg}$ , engine speed= $480\text{rpm}$ . 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  $220^{\circ}\text{C}$  and leaving at  $115^{\circ}\text{C}$ . Cold fluid enters at  $10^{\circ}\text{C}$  and leaves at  $75^{\circ}\text{C}$ . Mass flow rate of hot fluid  $100\text{ kg/hr}$ ,  $C_p$  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  $1.5\text{ kg/sec}$ , the suction pressure is  $1.013\text{bar}$ . The inter-stage pressure is  $7\text{bar}$  and the delivery pressure is  $45\text{bar}$ . Air enters the low-pressure cylinder at  $280\text{K}$  and is inter cooled to  $300\text{K}$  before inlet to the high pressure cylinder and delivers at  $420\text{K}$ . 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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**Annelies Wilder-Smith**



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