

Q.43 Consider the following statements regarding streamline(s):

- (i) It is a continuous line such that the tangent at any point on it shows the velocity vector at that point
- (ii) There is no flow across streamlines
- (iii) $\frac{dx}{u} = \frac{dy}{v} = \frac{dz}{w}$ is the differential equation of a streamline, where u , v and w are velocities in directions x , y and z , respectively
- (iv) In an unsteady flow, the path of a particle is a streamline

Which one of the following combinations of the statements is true?

- (A) (i), (ii), (iv)
- (B) (ii), (iii), (iv)
- (C) (i), (iii), (iv)
- (D) (i), (ii), (iii)

Q.44 Consider a velocity field $\vec{V} = K(y\hat{i} + x\hat{k})$, where K is a constant. The vorticity, $\vec{\omega}$, is

- (A) $-K$
- (B) K
- (C) $-K/2$
- (D) $K/2$

Q.45 Water flows through a tube of diameter 25 mm at an average velocity of 1.0 m/s. The properties of water are $\rho = 1000 \text{ kg/m}^3$, $\mu = 7.25 \times 10^{-4} \text{ N.s/m}^2$, $k = 0.625 \text{ W/m.K}$, $Pr = 4.85$. Using $Nu = 0.023 Re^{0.8} Pr^{0.4}$, the convective heat transfer coefficient (in $\text{W/m}^2.\text{K}$) is _____

Q.46 Two identical metal blocks L and M (specific heat = 0.4 kJ/kg.K), each having a mass of 5 kg, are initially at 313 K. A reversible refrigerator extracts heat from block L and rejects heat to block M until the temperature of block L reaches 293 K. The final temperature (in K) of block M is _____

Q.47 Steam with specific enthalpy (h) 3214 kJ/kg enters an adiabatic turbine operating at steady state with a flow rate 10 kg/s. As it expands, at a point where h is 2920 kJ/kg, 1.5 kg/s is extracted for heating purposes. The remaining 8.5 kg/s further expands to the turbine exit, where $h = 2374 \text{ kJ/kg}$. Neglecting changes in kinetic and potential energies, the net power output (in kW) of the turbine is _____

Q.48 Two infinite parallel plates are placed at a certain distance apart. An infinite radiation shield is inserted between the plates without touching any of them to reduce heat exchange between the plates. Assume that the emissivities of plates and radiation shield are equal. The ratio of the net heat exchange between the plates with and without the shield is

- (A) 1/2
- (B) 1/3
- (C) 1/4
- (D) 1/8

Q.49 In a compression ignition engine, the inlet air pressure is 1 bar and the pressure at the end of isentropic compression is 32.42 bar. The expansion ratio is 8. Assuming ratio of specific heats (γ) as 1.4, the air standard efficiency (in percent) is _____

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Wolfgang Guggemos



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