

Q. 1 – Q. 20 carry one mark each

1. The minimum value of function $y = x^2$ in the interval $[1, 5]$ is
 (a) 0 (b) 1
 (c) 25 (d) undefined
2. If a square matrix A is real and symmetric, then the eigen values
 (a) are always real
 (b) are always real and positive
 (c) are always real and non-negative
 (d) occur in complex conjugate pairs
3. If $\phi(x, y)$ and $\psi(x, y)$ are functions with continuous second derivatives, then
 $\phi(x, y) + i\psi(x, y)$
 can be expressed as an analytic function of $x + iy$ ($i = \sqrt{-1}$), when
 (a) $\frac{\partial \phi}{\partial x} = -\frac{\partial \psi}{\partial x}; \frac{\partial \phi}{\partial y} = \frac{\partial \psi}{\partial y}$
 (b) $\frac{\partial \phi}{\partial y} = -\frac{\partial \psi}{\partial x}; \frac{\partial \phi}{\partial x} = \frac{\partial \psi}{\partial y}$
 (c) $\frac{\partial^2 \phi}{\partial x^2} + \frac{\partial^2 \phi}{\partial y^2} = \frac{\partial^2 \psi}{\partial x^2} + \frac{\partial^2 \psi}{\partial y^2} = 1$
 (d) $\frac{\partial \phi}{\partial x} + \frac{\partial \phi}{\partial y} = \frac{\partial \psi}{\partial x} + \frac{\partial \psi}{\partial y} = 0$
4. The partial differential equation
 $\frac{\partial^2 \phi}{\partial x^2} + \frac{\partial^2 \phi}{\partial y^2} + \left(\frac{\partial \phi}{\partial x}\right) + \left(\frac{\partial \phi}{\partial y}\right) = 0$ has
 (a) degree 1 order 2 (b) degree 1 order 1
 (c) degree 2 order 1 (d) degree 2 order 2
5. Which of the following relationships is valid only for reversible processes undergone by a closed system of simple compressible substance (neglect changes in kinetic and potential energy ? (1)
 (a) $\delta Q = dU + \delta W$ (b) $T dS = dU + p dV$
 (c) $T dS = dU + \delta W$ (d) $\delta Q = dU + p dV$
6. Water has a critical specific volume of $0.003155 \text{ m}^3/\text{kg}$. A closed and rigid steel tank of volume 0.025 m^3 contains a mixture of water and steam at 0.1 MPa . The mass of the mixture is 10 kg . The tank is now slowly heated. The liquid level inside the tank
 (a) will rise
 (b) will fall
 (c) will remain constant
 (d) may rise or fall depending on the amount of heat transferred
7. Consider an incompressible laminar boundary layer flow over a flat plate of length L , aligned with the direction of an oncoming uniform free stream. If F is the ratio of the drag force on the front half of the plate to the drag force on the rear half, then
 (a) $F < 1/2$ (b) $F = 1/2$
 (c) $F = 1$ (d) $F > 1$
8. In a steady flow through a nozzle, the flow velocity on the nozzle axis is given by $v = u_0 (1 + 3x/L)$ i , where x is the distance along the axis of the nozzle from its inlet plane and L is the length of the nozzle. The time required for a fluid particle on the axis to travel from the inlet to the exit plane of the nozzle is
 (a) $\frac{L}{u_0}$ (b) $\frac{L}{3u_0} \ln 4$
 (c) $\frac{L}{4u_0}$ (d) $\frac{L}{2.5 u_0}$
9. Consider steady laminar incompressible axis-symmetric fully developed viscous flow through a straight circular pipe of constant cross-sectional area at a Reynolds number of 5. The ratio of inertia force to viscous force on a fluid particle is
 (a) 5 (b) $\frac{1}{5}$
 (c) 0 (d) ∞

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