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Q:) The intensity of pressure developed by surface tension of 0.075 N/m in a droplet of water of 0.075 mm diameter is

A : 0.8N/cm^2

B : 0.6N/cm^2

C : 0.4N/cm^2

D : 400N/cm^2

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Q:) Pressure of 200 kPa is equivalent to a head of x meters of carbon tetra-chloride of relative density 1.59 where x is Equal to

A : 11.62

B : 11.92

C : 12.82

D : 13.12

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Q:) An open tank contains a m deep water with 50 cm depth of oil of specific gravity 0.8 above It. The intensity of pressure at the bottom of tank will be

A : 4 KN/m^2

B : 10 KN/m^2

C : 12 KN/m^2

D : 14 KN/m^2

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Q:) The pressure intensity is same in all directions at a point a. 1N/mm^2
b. 1000 N/m^2

A : Only when fluid is frictionless and in compressible

B : Only when fluid is frictionless and is at rest

C : Only when fluid is frictionless

D : When there is no relative motion of one fluid layer relative to other

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Q:) The increase in metacentric height

1. Increases stability

2. Decreases stability

Increases comfort for passengers

Decreases comfort for passengers the correct answer is

A : (i) and (ii)

B : (i) and (iv)

C : (ii) and (iii)

D : (ii) and (iv)

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Q:) A rectangular block 2 m long, 1 m wide and 1 m deep floats in water, the depth of Immersion being 0.5 m. if water weight 10 KN/m^3, then the weight of the block is

A : 5 KN

B : 10 KN

C : 15 KN

D : 20 KN

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Q:) If a vessel containing liquid moves downward with a constant acceleration equal to than

A : The pressure throughout the liquid mass is atmospheric

B : There will be vacuum in the liquid

C : The pressure in the liquid mass is greater than hydrostatic pressure

D : None of the above

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Q:) When a liquid rotates at a constant angular velocity about a vertical axis as a rigid body The pressure intensity varies

A : linearly with radial distance

B : as the square of the radial distance

C : inversely as the square of the radial distance

D : inversely as the radial distance

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Q:) The eddy viscosity for turbulent flow is

A : a function of temperature only

B : a physical property of the fluid

C : dependent on the flow

D : independent of the flow

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Q:) The equation $P/W + V^2/2q + z = constant$

A : steady, frictionless, incompressible and along a streamline

B : Steady, frictionless, uniform and along a streamline

C : Steady, incompressible, uniform and along a streamline

D : Steady, frictionless, incompressible and uniform

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Q:) When the velocity distribution is uniform over the cross-section the correction factor for momentum is

A : 0

B : 1

C : 4/3

D : 2

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Q:) If the velocity is zero over half of the cross-sectional area and is uniform over the remaining half, then the momentum correction factor is

A : 1

B : 4/3

C : 2

D : 4

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Q:) If velocity is zero over 1/3rd of a cross-section and is uniform over remaining 2/3rd of the cross-section then the correction factor fro kinetic energy is

A : 4/3

B : 3/2

C : 9/4

D : 27/8

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Q:) The magnitude of the component of velocity at point (1,1) for a stream function &Psi $=X^2 - y^2$ is equal to

A : 2

B : $2\sqrt{2}$

C : 4

D : $4\sqrt{2}$

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Q:) In a forced vortex motion, the velocity of flow is

A : Directly proportional to its radial distance from axis of rotation

B : Inversely proportional to its radial distance from the axis of rotation

C : Inversely proportional to the square of its radial distance from the axis of rotation

D : Directly proportional to the square of its radial distance from the axis of rotation

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Q:) Stream lines and path lines always coincide in case of

A : Steady flow

B : Laminar flow

C : Uniform flow

D : Turbulent flow

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Q:) In steady flow of a fluid, the total accede-ration of any fluid particle

A : Can be zero

B : Is never zero

C : Is always zero

D : Is independent of coordinates

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Q:) A fluid jet discharge from a 4 cm diameter orifice has a diameter 3 cm at its vena contract. If the coefficient of velocity is 0.98 the coefficient of discharge for the orifice will be

A : $0.98 \times (0.75)^2$

B : $\frac{(0.75)^2}{0.98}$

C : $0.98 \times (1.33)^2$

D : $\frac{0.98}{(1.33)^2}$

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Q:) Coefficient of contraction for an external cylindrical mouthpiece is

A : 1

B : 0.855

C : 0.711

D : 0.611

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