



# CIVIL ENGINEERING

## QUESTION PRACTICE PROGRAM

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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 :  $0.8\text{N/cm}^2$

B :  $0.6\text{N/cm}^2$

C :  $0.4\text{N/cm}^2$

D :  $400\text{N/cm}^2$



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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<sup>2</sup>

B : 10 KN/m<sup>2</sup>

C : 12 KN/m<sup>2</sup>

D : 14 KN/m<sup>2</sup>



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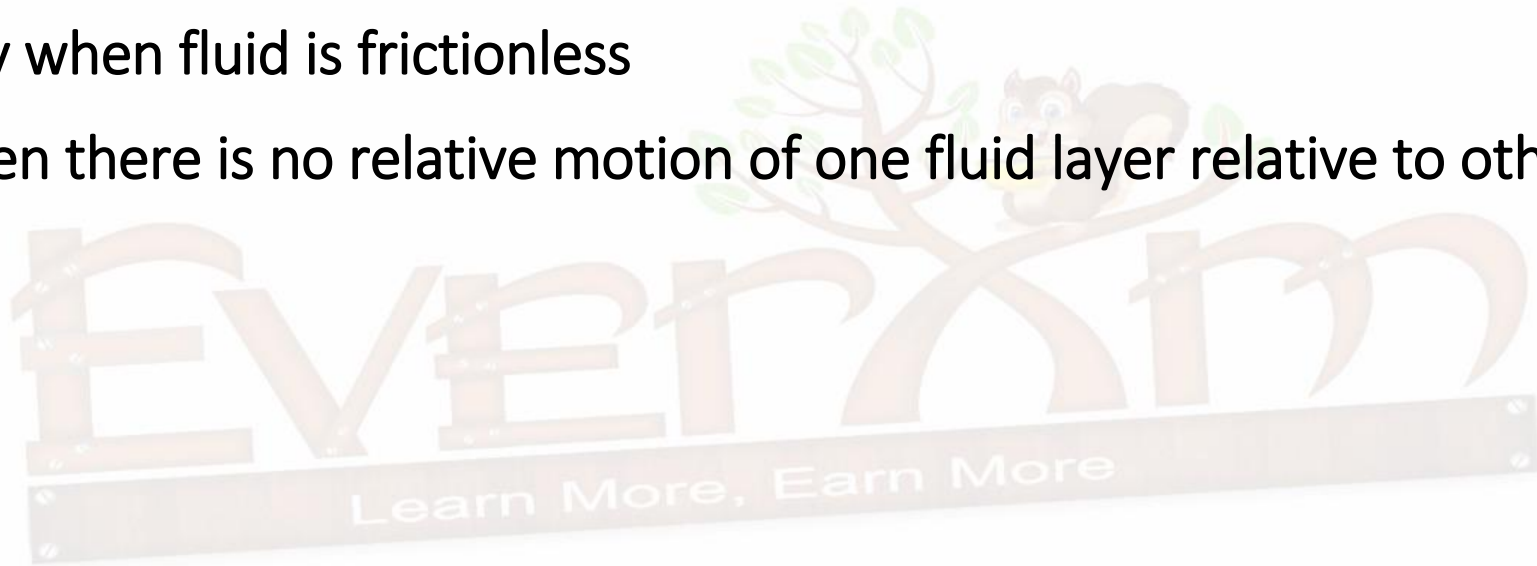
Q: ) The pressure intensity is same in all directions at a point a.  $1\text{N}/\text{mm}^2$   
b.  $1000\text{ N}/\text{m}^2$

A : Only when fluid is frictionless and incompressible

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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**EVEREXAM**

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  $10 \text{ KN/m}^3$ , then the weight of the block is

A : 5 KN

B : 10 KN

C : 15 KN

D : 20 KN



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**EVEREXAM**

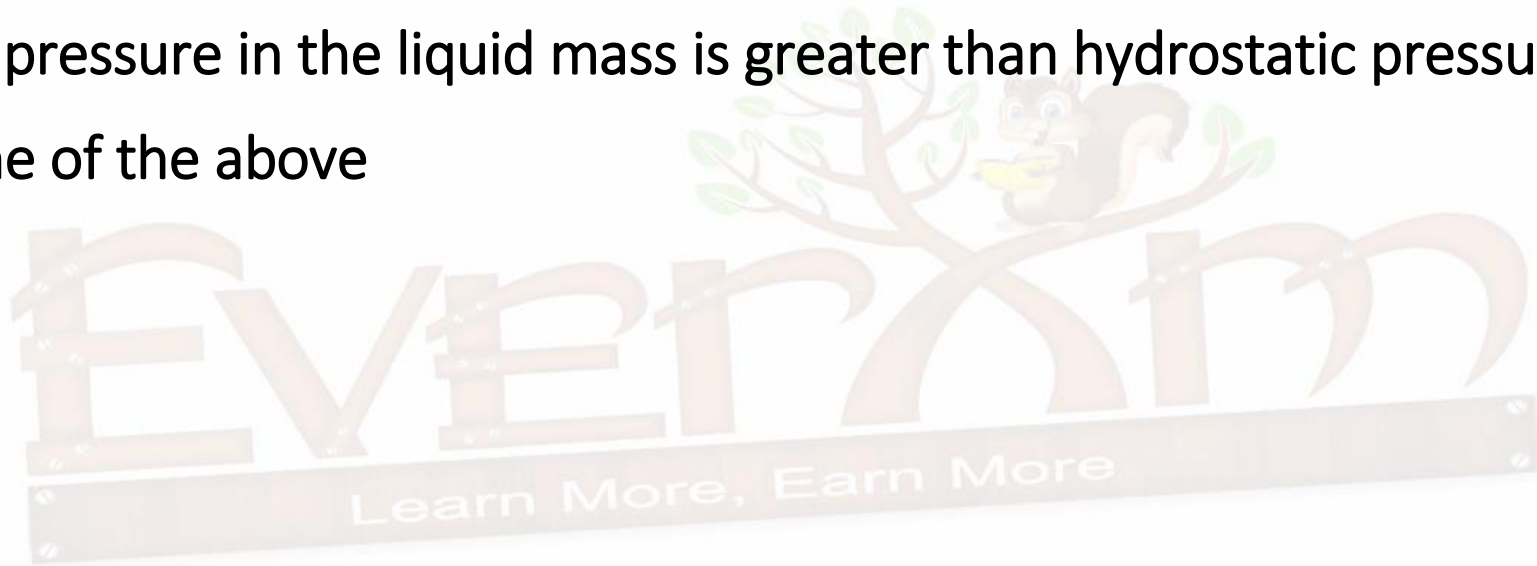
Q: ) If a vessel containing liquid moves downward with a constant acceleration equal to  $g$

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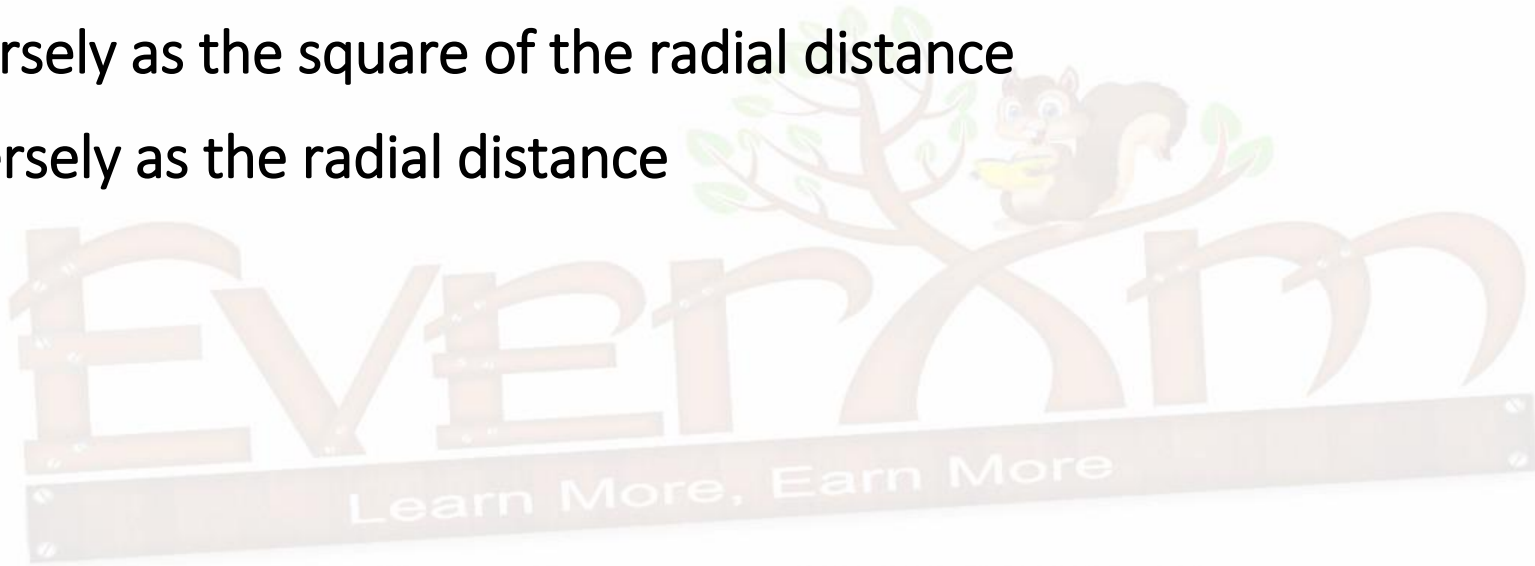
Q: ) When a liquid rotates at a constant angular velocity about a vertical axis as a rigid body The pressure intensity varies

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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**EVEREXAM**

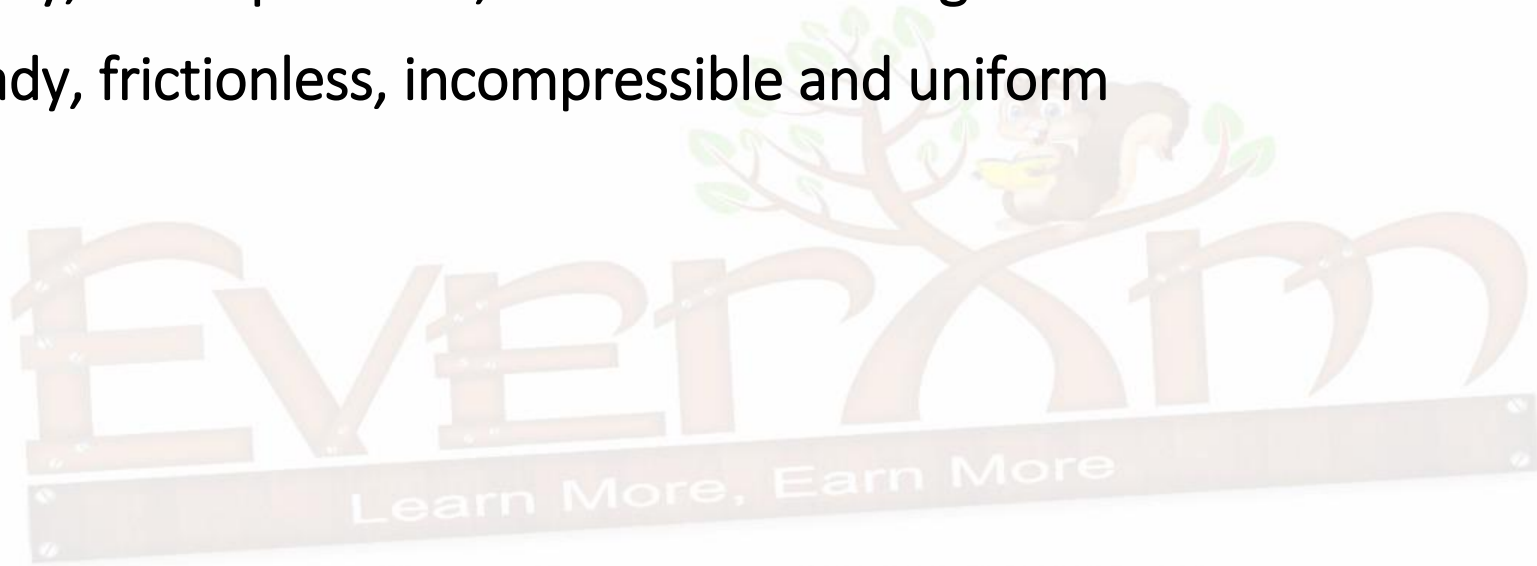
Q: ) The equation  $\frac{P}{W} + \frac{V^2}{2g} + z = \text{constant}$

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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**EVEREXAM**

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  $\frac{1}{3}$ rd of a cross-section and is uniform over remaining  $\frac{2}{3}$ rd of the cross-section then the correction factor fro kinetic energy is

A :  $\frac{4}{3}$

B :  $\frac{3}{2}$

C :  $\frac{9}{4}$

D :  $\frac{27}{8}$



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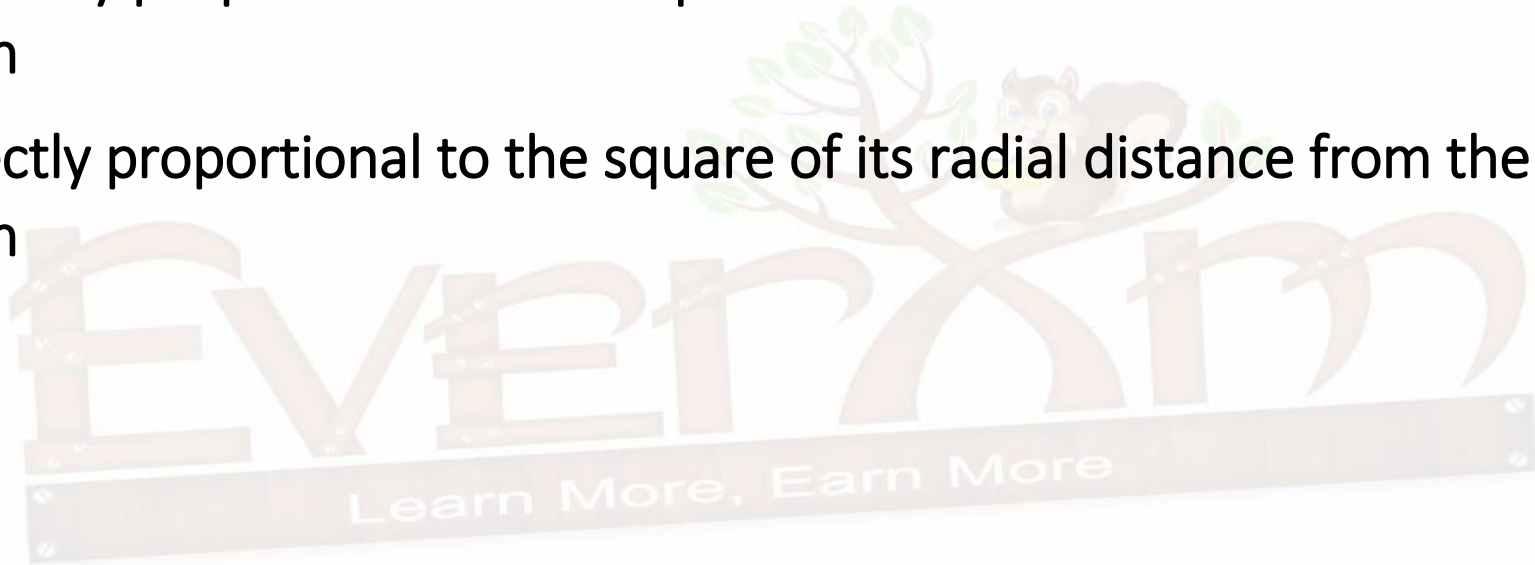
Q: ) In a forced vortex motion, the velocity of flow is

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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