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SSC JE PRE 2019

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Q :) The variation in the volume of a liquid with the change of pressure is called its: [NWDA JE 2019]

A : Surface tension

B : Capillarity

C : Viscosity

D : Compressibility

Q :) For a circular water tank of 6m diameter and 4 m height resting on the ground and having flexible joints between the floor and the wall the maximum hoop tension will be developed at: [Civil ESIC JE 2019]

A : The Bottom edge

B : 1.6 m from the bottom

C : The top edge

D : 2 m from the bottom

Q :) Two Horizontal plates are placed 2 cm apart, the space between them being filled with oil of viscosity 10 Poise. If the upper plate is moved with a velocity of 2m/s, the shear stress in the oil would be: [M.P Sub Engg 2018]

A : 300N/m^2

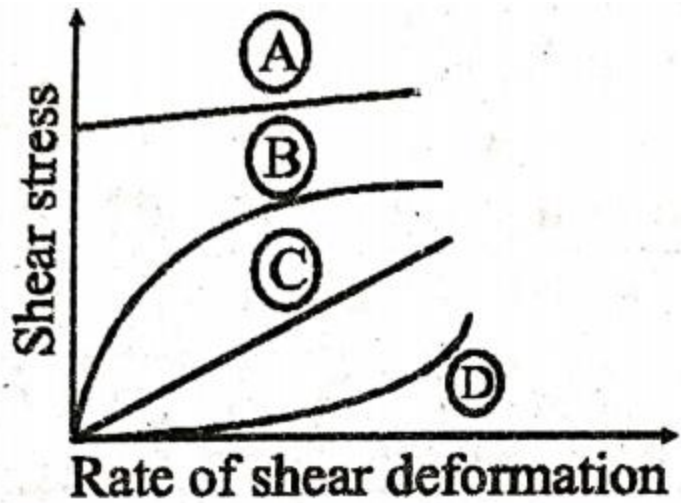
B : 150N/m^2

C : 200N/m^2

D : 100N/m^2

Q :) In the given figure which nature of fluid is represented by curve A?

[UPPCL JE, 2015]



A : Newtonian

B : Pseudo

C : Dilatant

D : Ideal Bingham plastic

Q :) Match list - I With List - II and choose the correct answer from the options below.

List - I	List - II
A. Compressibility	1. Flow of real fluid past a tiny sphere
B. Gravity	2. Cavitation
C. Viscosity	3. Hydraulic jump
D. Vapour Pressure	4. Flight of supersonic aircraft

Codes:

A : A - 3, B - 4, C - 2, D - 1

B : A - 3, B - 4, C - 1, D - 2

C : A - 4, B - 3, C - 1, D - 2

D : A - 4, B - 3, C - 2, D - 1

Q :) The motion of air mass in a tornado is a [SSC JE 2017]

A : Free vortex motion

B : Forced vortex motion

C : Free vortex at center and forced vortex outside

D : Forced vortex at centre and free vortex outside

Q :) An iceberg floats in sea water with 14% of its volume projecting above the sea surface. If the specific weight of sea water is 10400 N/m^2 Determine specific weight of the iceberg (in N/m^2) [SSC JE 2019]

A : 8836

B : 8314

C : 9125

D : 8944

Q :) The force exerted by a static fluid on a vertical horizontal or an inclined plane surface that is immersed depends on the. [NWDA JE 2019]

A : Density of the liquid only

B : Area of the immersed surface

C : Density of the liquid, area of immersed surface and depth of the centre of gravity of the immersed surface

D : Density of the liquid and Area of the immersed surface

Q :) When a force is exerted by a flowing fluid on a stationary body, the component of the total force in the direction perpendicular to the direction of motion is known as [BSPHCL JE Civil 2019]

A : Drag

B : Lift

C : Shear

D : Stress

Q :) Condition of stable equilibrium of submerged body: [LMRC JE 2018]

A : Weight of body is equal to buoyancy force & buoyancy point is above the center of gravity

B : Buoyancy force should be in between the center of gravity and buoyancy point

C : Buoyancy force should be below the center of gravity

D : Buoyancy force coincide with center of gravity

Q :) A rectangular plate 0.75 m X 2.4m is immersed in a liquid of relative density of 0.85 with its 0.75m side horizontal and just at the water surface. If the plane of the plate makes an angle of 60° with the horizontal, then the pressure on one side of the plate is

[M.P Sub Engg 2018]

A : 7.8 kN

B : 15.6 kN

C : 18.0 kN

D : 27.0 kN

Q :) If atmospheric pressure is 1.03 kg/cm^2 and absolute pressure at a point is 1.05 kg/cm^2 then what would be the gauge pressure at that point

[UPPCL JE 2013]

A : 20 kg/cm^2

B : 0.02 kg/cm^2

C : 2.08 kg/cm^2

D : 1.05 kg/cm^2

Q :) When a fluid mass rotates without any external force being impressed on it, then it is called as: [DDA JE 2018]

A : Forced vortex motion

B : Turbulence

C : Free vortex motion

D : Cyclone

Q :) For a flow the velocity components are given by $u = (\lambda xy^2 - x^3 - y^2)$ and $v = (x^2 y^3 - 3y^3)$. What is the value of λ for the possible flow field which includes steady incompressible flow? [SSC JE 2018]

A : 3

B : 5

C : 7

D : 9

Q :) For a two dimensional flow, the stream function is given by $\Psi = 2 xy$.
The velocity at a point (3,4) is equal to [UTTRAKHAND AE 2013]

A : 6m/sec

B : 8m/sec

C : 10m/sec

D : 12m/sec

Q :) In laminar flow between parallel plates, the ratio maximum velocity and average velocity of flow is [UTTRAKHAND AE 2013]

A : 2

B : 1.33

C : 1.5

D : 1

Q :) In a venturimeter, to avoid flow separation, angle divergence should not be greater than: [UPPCL JE 2016]

A : 3°

B : 7°

C : 12°

D : 20°

Q :) If time taken (T) to close the valve is less than $2L/c$ then the valve closure is said to be: [LMRCL (ASST. MANAGER) 2018]

A : Sudden

B : Gradual

C : Leakage

D : Water tight

Q :) The Discharge through a venturimeter is given as (with usual notation):
[Uttarakhand JE Paper II, 2015,

UK Combined AE Paper – I, 2012,

UKPSC AE Paper – I, 2007]

A : $Q = C_d A_1^2 A_2^2 \sqrt{2gh} / \sqrt{A_1^2 - A_2^2}$

B : $Q = C_d A_1 A_2 \sqrt{2gh} / \sqrt{2A_1^2 - A_2^2}$

C : $Q = C_d A_1 A_2 \sqrt{2gh} / \sqrt{A_1^2 - A_2^2}$

D : None of the above