

ST. LAWRENCE HIGH SCHOOL



•	Chapter-	Pressure	in	solid.	lia	wids	and	gases

• Answer the following questions (MCQ): (1×15):

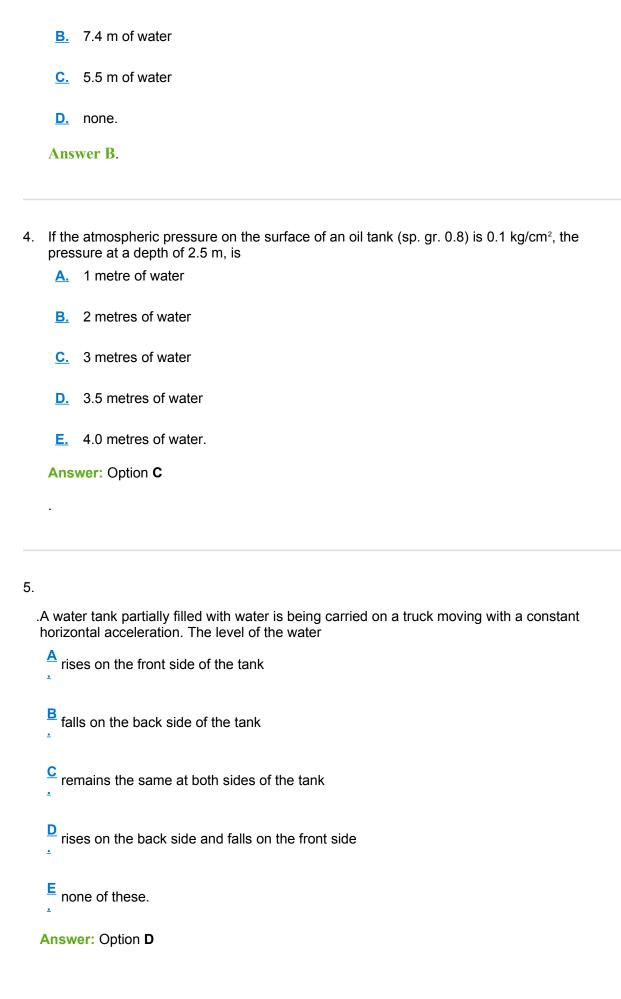
1.A pitot tube is used to measure A.density B. Pressure C.viscosity D. Tension E.force

Answer B.pressure.

- 2. The thickness of a sharp crested weir is kept less than
 - A. one-third of the height of water on the sill
 - **B.** one-half of the height of water on the sill
 - C. one-fourth of the height of water on the sill
 - **D.** two-third of the height of water on the sill
 - **E.** none of these.

Answer B.

- 3. The maximum vacuum created at the summit of a syphon is
 - A. 2.7 m of water



6.	A rectangular channel 6 m wide and 3 m deep and having a bed slope as 1 in 2000 is running full. If Chezy's constant $C = 54.8$, pick up the correct specification of the channel from the following :					
	A. hydraulic mean depth = 1.5 m					
	<u>B.</u>	Velocity of flow = 1.5 m/sec				
	<u>C.</u>	Rate of flow = 27 m³/sec				
	<u>D.</u>	All the above.				
Answer: Option D.						
7		over flow double curvature concrete arch, is provided in Bhakra dam				
	<u>B.</u>	Hirakund dam				
	<u>C.</u>	Nagarjuna Sagar dam				
	<u>D.</u>	ldukki dam.				
	Ans	wer: Option D				
84	Atmos	pheric pressure varies with				
<u>A</u>	alti	tude				
<u>B</u>	ten	nperature				
<u>C</u>	we	ather conditions				
<u>D</u>	all	of the above.				
Answer: Option D						

9. The magnitude of water hammer in a pipe depends upon speed at which value is closed length of the pipe line elastic properties of the pipe material elastic properties of the following liquid <u>D.</u> all the above. Answer: Option E 10. If velocities of fluid particles vary from point to point in magnitude and direction, as well as from instant to instant, the flow is said to be laminar <u>A.</u> turbulent flow C. uniform flow **D.** non-uniform flow. Answer: Option B 11. The rise of the liquid along the walls of a revolving cylinder above the initial level, is greater than the depression of the liquid at the axis of rotation lesser than the depression of the liquid at the axis of rotation the same as the depression of the liquid at the axis of rotation **D.** none of these. Answer C.

12. I		s change the volume under external presssure due to						
	<u>A.</u>	plasticity						
	<u>B.</u>	viscosity						
	<u>C.</u>	compressibility						
	<u>D.</u>	none of these.						
Answer: Option C								
	13. In flowing liquids pitot tubes are used measure							
<u>A</u>	dis	discharge						
<u>B</u>	pre	pressure						
<u>C</u>	velocity							
<u>D</u>	аериі.							
Ans	Answer: Option C							
14. (Capi	llary rise of water is						
	<u>A.</u>	directly proportional to surface tension						
	<u>B.</u>	inversely proportional to water density						
	<u>C.</u>	inversely proportional to diameter of the tube						
	<u>D.</u>	All of these.						
4	Answer: Option D							

- A. MLT⁻²
- **B.** M-1LT²
- C. ML-2T
- D. M-1L2T-2
- **E.** none of these.

Answer A.

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