

VALLIAMMAL ENGINEERING COLLEGE

SRM Nagar, Kattankulathur – 603 203.

**DEPARTMENT OF CIVIL ENGINEERING
QUESTION BANK****SUBJECT : CE 8002 / FLUID MECHANICS
SEM / YEAR: III/II**

UNIT I		FLUID PROPERTIES AND FLUID STATICS		9
Fluid – definition, distinction between solid and fluid - Units and dimensions - Properties of fluids - density, specific weight, specific volume, specific gravity, viscosity, compressibility, vapour pressure, capillarity and surface tension - Fluid statics: concept of fluid static pressure, absolute and gauge pressures - pressure measurements by manometers-forces on planes - centre of pressure - buoyancy and floatation.				
PART – A				
Q.No	Questions	BT Level	Competence	
1.	Define Centre of Pressure	BT-1	Remember	
2.	Define Mass Density	BT-1	Remember	
3.	Define Specific volume of fluid and write its unit.	BT-1	Remember	
4.	Define Kinematic Viscosity	BT-1	Remember	
5.	Define specific gravity	BT-1	Remember	
6.	Define Buoyancy	BT-1	Remember	
7.	Define Compressibility	BT-1	Remember	
8.	Define Surface tension and Capillarity	BT-1	Remember	
9.	What are the properties of real fluid?	BT-1	Remember	
10.	What is cohesion and adhesion in fluids?	BT-1	Remember	
11.	Classify the Types of fluids.	BT-2	Understand	
12.	Compare specific weight and specific volume	BT-2	Understand	
13.	Relate absolute pressure and gauge pressure	BT-2	Understand	
14.	Explain Newton's Law of Viscosity.	BT-2	Understand	
15.	Name the devices that are used to measure the pressure of a fluid	BT-3	Application	
16.	How to calculate pressure using differential manometers	BT-3	Application	
17.	Calculate the specific weight, density and specific gravity of 1 litre of liquid which weighs 7 N.	BT-3	Application	
18.	Distinguish between gauge pressure and vacuum pressure	BT-4	Analyse	
19.	Two horizontal plates are placed 1.25 cm apart. The space between them is being filled with oil of viscosity 14 poises. Examine the shear stress in oil if upper plate is moved with a velocity of 2.5 m/s.	BT-4	Analyse	
20.	Find the Kinematic viscosity of an oil having density 981 kg/m ³ . The shear stress at a point in oil is 0.2452 N/m ² and velocity gradient at that point is 0.2 /sec.	BT-4	Analyse	
21.	Determine the specific gravity of a fluid having viscosity 0.009 N/m ² and kinematic viscosity 0.055×10^{-4} m ² /s.	BT-5	Evaluate	

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G.B Vinay



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