

## PPSC Physics Topic 2 Structural Properties of Matter

Sr	Questions	Answers Choice
1	Viscosity in fluid refers to	A. The density of a fluid B. the compressibility of a fluid C. Tangential force exerted on solid surface by the flowing fluid D. Normal forces exerted on solid surface by the following fluid
2	The terminal velocity in case of spherical droplet is directly proportional to.	A. Square of the radius of the droplet B. Radius of the droplet C. Cube of the radius of the droplet D. Half of the Radius of the droplet half
3	Powder clings to the face due to	A. Compression B. Capillary action C. Cohesion D. Adhesion
4	In which one of the following states molecules do not leave their position.	A. Solid B. Liquid C. Gas D. Plasma
5	With increase in temperature the angle of contact of liquid.	A. Increases B. Decreases C. Becomes zero D. First increase then decreases
6	balls fall faster than rain drops due to their	A. Greater size B. Greater mass C. Greater area D. Structure
7	If a liquid does not wet a solid surface, the angle of contact is.	A. Less than $90^\circ$ B. Greater than $180^\circ$ C. $90^\circ$ D. Between $90^\circ$ and $180^\circ$
8	Permanent change in shape or size of a solid body without fracture resulting from the application of strained stress beyond the elastic limit is called.	A. Elastic limit B. Plastic limit C. elastic deformation D. Plastic deformation
9	Which principle is in effect when a ship displaces ocean water.	A. Bernoulli's B. Pascal's C. Hook's D. Archimedes
10	A uniform vertical wire is stretched by hanging a mass from its lower end Which of the following does not affect the strain in the wire.	A. The stress B. The unstretched length C. The load applied D. the Young's modulus of the metal
11	The strength per unit volume of a solid is called.	A. shear stress B. Shear strain C. Bulk strength D. Bulk modulus
12	The SI unit of viscosity is.	A. $\text{Kg m}^{-1} \text{s}^{-2}$ B. $\text{kg m}^{-1} \text{s}^{-1}$ C. $\text{kg ms}^{-1}$ D. $\text{kg m s}^{-2}$
13	The rate of which blood is delivered to the patient in a transfusion depends on	A. Height of the blood level in the suspended container B. Volume of the container C. Shape of the container D. Material of the container
14	Fluid mechanics is the study of how fluid move and the other thing involved is	A. Energy B. Velocity C. Forces D. Position

15	A boat moving at constant speed 'v' through still water experiences a total frictional drag F what is the power developed by the boat.	A. $\frac{1}{2} Fv$ B. $Fv$ C. $\frac{1}{2} Fv^2$ D. $Fv^2$
16	The word amorphous means	A. With regular structure B. Without structure C. May have regular structure D. Thermoplastics
17	Drag force between two layers under consideration depends on	A. Distance between the layers B. Surface area of layers C. Relevant velocity between them D. All of the above
18	A liquid surface tends to contract this phenomenon is due to	A. Viscosity B. Diffusion C. Density D. surface tension
19	Which of the following solids exhibits only short range order.	A. Amorphous solids B. Polymeric solids C. Crystalline solids D. All of the above
20	The SI unit of strain is	A. $N\ m^{-1}$ B. $N\ m^{-2}$ C. $N\ m$ D. It has no unit