

PPSC Physics Topic 2 Structural Properties of Matter

Sr	Questions	Answers Choice
1	An instrument which can float in the liquid to be tested and by means of which the specific gravity of the liquid may be determined is.	A. Hydrometer B. Barometer C. Siphon D. Lactometer
2	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
3	Minor losses through valves, fittings, bends etc are modeled as proportional to	A. Velocity head B. Static head C. total head D. Pressure drop
4	The velocity at which laminar flow changes to turbulent flow is called.	A. Terminal velocity B. Escape velocity C. Critical velocity D. Uniform velocity
5	Gases have	A. Fixed shape B. Fixed volume C. Fixed shape and volume D. No fixed shape and volume
6	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
7	a cube with sides 2 cm long is made from a material of density 8 g cm ⁻³ What is the mass of the cube	A. 4 g B. 16 g C. 32 g D. 64 g
8	Plasma exists in	A. Electric bulbs B. Tube light C. Energy savers D. Fluorescent tubes
9	When the deforming force applied on a body produces change in shape, then it is said to be	A. Tensile stress B. Compression stress C. Shear stress D. Shear modulus
10	The viscosity of an ideal fluid is	A. Infinity B. Unity C. Zero D. 0.5
11	The maximum stress a solid material can sustain without undergoing permanent deformation is called.	A. elastic limit B. Plastic C. elastic deformation D. Plastic deformation
12	The force applied on unit area of a body to produce any change in shape volume or length is known as.	A. Strain B. Stress C. Tensile strain D. Tensile stress
13	A bodybuilder uses a chest expander with five springs it takes a force of 20 N to pull one spring out by 15 cm how much force will be needed to extend the expander by 15 cm.	A. 50 N B. 75 N C. 150 N D. 1000 N
14	If you float in water with just your nose out the average density of your body must be	A. Same as that of water B. Greater than that of water C. Less than that of water D. Zero
15	If a fluid does not wet a liquid surface, the angle of contact is.	A. 90° B. less than 90° C. greater than 180° D. 180°

		D. between 90° and 180°
16	With increase in temperature the angle of contact of liquid.	A. Increases B. Decreases C. Becomes zero D. First increase then decreases
17	The air plane lift is based on	A. Archimedes principle B. Law of conservation of momentum C. Bernoulli's principle D. Law of conservation of energy
18	A thin film of liquid is enclosed between two glass plates it is difficult to separate the plates on account of.	A. Surface tension B. Atmospheric pressure C. Viscosity D. Friction
19	Crystalline solids are of.	A. Short range order B. Long range order C. Intermediate range D. Plastics
20	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