

PPSC Physics Topic 2 Structural Properties of Matter

Sr	Questions	Answers Choice
1	The ratio of stress to strain is called.	A. Bulk modulus B. Young's modulus C. Modulus of elasticity D. Shear modulus
2	Gases have	A. Fixed shape B. Fixed volume C. Fixed shape and volume D. No fixed shape and volume
3	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
4	Minor losses through valves, fittings, bends etc are modeled as proportional to	A. Velocity head B. Static head C. total head D. Pressure drop
5	The SI unit of stress is	A. kg m s ⁻² B. kg m ⁻¹ s ⁻² C. N m ⁻² D. N m ⁻¹
6	The maximum stress a solid material can sustain with out undergoing permanent deformation is called.	A. elastic limit B. Plastic C. elastic deformation D. Plastic deformation
7	A solid object is	A. Not elastic below the elastic limit B. Not elastic above the elastic lime C. Elastic below the elastic limit D. Not elastic at all
8	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
9	The strength per unit volume of a solid is called.	A. shear stress B. Shear strain C. Bulk strength D. Bulk modulus
10	If a liquid does not wet a solid surface, the angle of contact is.	A. Less than 90° B. Greater than 180° C. 90° D. Between 90° and 180°
11	Which liquid can flow easily.	A. Traacle B. Pitch C. Ether D. All flow with same rate
12	Viscosity will be maximum when	A. Water is at 20°C B. Honey is at 20°C C. Water is at 100°C D. Milk is at 100°C
13	Bernoulli's equation is Applica table to points	A. In a steady flowing liquid B. In a streamline C. In a straight line perpendicular to streamline D. In any non viscous liquid
14	The buoyancy depends upon the	A. Depth to which the body is immersed B. Shape of the body C. Mass of the body D. Mass of the liquid displaced
15	Amorphous solids are also called	A. Crystalline solids B. Glassy solids

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16	The dimensions of strain are.	A. $[MLT^{-2}]$ B. $[ML^{-1}T^{-2}]$ C. $[ML^{-2}T^{-3}]$ D. It is a dimensionless quantity
17	At which temperature surface tension of liquid will be maximum	A. $0^{\circ}C$ B. $20^{\circ}C$ C. $30^{\circ}C$ D. $100^{\circ}C$
18	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
19	A solid in which there is no regular arrangement of molecules.	A. Amorphous solids B. Glassy solids C. Crystalline solids D. Polymerization
20	a body floats in liquid contained in a beaker The whole system falls freely under gravity The outthrust on the body due to liquids is	A. Zero B. Equal to the weight of the body in air C. Equal to the weight of the liquid displaced D. Equal to the weight of the immersed portion of the body