

PPSC Physics Topic 2 Structural Properties of Matter

Sr	Questions	Answers Choice
1	Fluid mechanics is the study of how fluid move and the other ting involved is	A. Energy B. Velocity C. Forces D. Position
2	Gases have	A. Fixed shape B. Fixed volume C. Fixed shape and volume D. No fixed shape and volume
3	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
4	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
5	Which of the following has maximum viscosity.	A. Oxygen B. Mercury C. Water D. Glycerine
6	A force of 10 N acting on a certain spring produces an extension of 40 mm Two such spring are connected end to end and this double length spring is extended by 40 mm What is the strain energy.	A. 0.05 J B. 0.10 J C. 0.20 J D. 0.40 J
7	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 surace by the following fluid
8	The force that moves a rocket or a plane forward is called.	A. Lift B. drag C. Thrust D. Turbulence
9	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
10	The strength per unit volume of a solid is called.	A. shear stress B. Shear strain C. Bulk strength D. Bulk modulus
11	At high altitudes, the blood flows out of nose and ear because.	A. Blood pressure increase at high altitudes B. Percentage of oxygen in the air increase C. Atmospheric pressure decreases there D. Density of blood decreases of high altitudes
12	Minor losses through valves, fittings, bends etc are modeled as proportional to	A. Velocity head B. Static head C. total head D. Pressure drop
13	the ratio of applied stress to volumetric strain is called.	A. shear modulus B. Bulk modulus C. Young's modulus D. elastic limit
14	If a liquid does not wet a solid surface, the angle of contact is.	A. Less than 90 ^o B. Greeter than 180 ^o C. 90 ^o D. 180 ^o

		D. Between 90 ^o and 180 ^o
15	balls fall faster than rain drops due to their	A. Grater size B. Greater mass C. Greater area D. Structure
16	Which of the substances is the lightest one.	A. Copper B. Mercury C. Aluminium D. Lead
17	The air pressure at the bottom of an air foiling motion is	A. Greater than that on the top B. Equal to that on the top C. Grather than that on the top D. Zero
18	Viscosity of fluids with rise in temperature.	A. Increases B. Decreases C. Remains constant D. Vanishes
19	In which one of the following states molecules do net leavt their position.	A. Solid B. Liquid C. Gas D. Plasma
20	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