

## PPSC Physics Topic 2 Structural Properties of Matter

| Sr | Questions   | Answers Choice   |
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| 1  | Artificial polymers are made by a chemicals reaction known as.  | A. Crystallization<br>B. Electroplating<br>C. Polymerization<br>D. Polarization  |
| 2  | The property of a material to return to it original shape and size on the removal of an external force is called. | A. Stress<br>B. Strain<br>C. Toughness<br>D. Elasticity  |
| 3  | The force that moves a rocket or a plane forward is called.   | A. Lift<br>B. drag<br>C. Thrust<br>D. Turbulence   |
| 4  | Plasma exists in  | A. Electric bulbs<br>B. Tube light<br>C. Energy savers<br>D. Fluorescent tubes   |
| 5  | A fluid is said to be ideal if it is  | A. Non viscous<br>B. Non viscous and incompressible<br>C. Non viscous and with steady flow<br>D. Non viscous incompressible and has steady flow  |
| 6  | a cube with sides 2 cm long is made from a material of density 8 g cm <sup>-3</sup> What is the mass of the cube  | A. 4 g<br>B. 16 g<br>C. 32 g<br>D. 64 g  |
| 7  | The dimensions of stress are  | A. [MLT <sup>-1</sup> ]<br>B. [ML <sup>-1</sup> T]<br>C. [ML <sup>-1</sup> T <sup>-1</sup> ]<br>D. [ML <sup>-1</sup> T <sup>-2</sup> ]   |
| 8  | The surface of a liquid is somewhat similar to a stretched membrane because.                                      | A. There is an elastic stress in the surface<br>B. Tension in the surface increases if the area is increased<br>C. The surface has a natural tendency to contract<br>D. Ripples can be produced on the surface |
| 9  | The product of cross sectional area of the pipe and the fluid velocity at any point along the pipe is equal to.   | A. Zero<br>B. Flow rate<br>C. A constant<br>D. A variable  |
| 10 | Reversible alteration of the form of dimensions of a solid body under stress and strain is called.                | A. elastic limit<br>B. Plastic limit<br>C. elastic deformation<br>D. Plastic deformation   |
| 11 | The air plane lift is based on  | A. Archimedes principle<br>B. Law of conservation of momentum<br>C. Bernoulli's principle<br>D. Law of conservation of energy  |
| 12 | A small and a large rain drops are falling through all.   | A. Large drop falls faster<br>B. Both move with same velocity<br>C. Small drop falls faster<br>D. Small drop does not fall   |
| 13 | In which one of the following states molecules do not leave their position.                                       | A. Solid<br>B. Liquid<br>C. Gas<br>D. Plasma   |
| 14 | At which temperature surface tension of liquid will be maximum  | A. 0 °C<br>B. 20 °C<br>C. 30 °C<br>D. 100 °C   |

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| 15 | The maximum stress a solid material can sustain with out undergoing permanent deformation is called.                 | A. elastic limit<br>B. Plastic<br>C. elastic deformation<br>D. Plastic deformation         |
| 16 | A breaker is full of water with an ice piece floating The ice place has a lead piece in it When ice cube mells then. | A. Water overflows<br>B. Level falls<br>C. Level remains unchanged<br>D. Density increases |
| 17 | The ratio of stress to strain is called.   | A. Bulk modulus<br>B. Young's modulus<br>C. Modulus of elasticity<br>D. Shear modulus      |
| 18 | The SI unit of strain is   | A. N m-1<br>B. N m-2<br>C. N m<br>D. It has no unit  |
| 19 | The SI unit of stress is   | A. kg m s-2<br>B. kg m-1 s-2<br>C. N m-2<br>D. N m-1                                       |
| 20 | The nib of fountain pan is split of convey ink down the nib by the phenomenon of.                                    | A. Adhesion<br>B. Cohesion<br>C. Osmosis<br>D. Capillary                                   |