

Mechanical Properties of Matter

Sr	Questions	Answers Choice
1	Which will exert greater pressure.	A. 3 g needle of tip are 1 mm ² B. 4000 kg elephant of total feed area 0.5 m ² C. A girl of mass 40 kg wearing high heel shoes of cross sectional area 0.5 cm ² D. A loaded ship of mass 2.2 x 10 ⁷ kg having area 600 mm ²
2	Pressure of 1 mm Hg is equal to	A. 1 atm B. 133.29 atm C. 1.316 x 10 ⁻³ atm D. 1.31 x 10 ⁵ atm
3	Which amount of water has greater density at room temperature.	A. 1 ton B. 100 g C. 1 kg D. All have same density
4	What is mass of a liquid of density 50 kg m ⁻³ in a container of volume 5 m ³ ?	A. 200 kg B. 250 kg C. 225 kg D. 275 kg
5	Which of the following physical properties is used in a mercury thermometer.	A. Colour B. Pressure C. Volume D. Electrical resistance
6	The pressure at any point in a liquid is proportional to.	A. Density of liquid B. Depth of the point below the surface of the liquid C. Acceleration due to gravity D. All of the above
7	In a stationary fluid, the local pressure of the fluid varies.	A. Neither with depth nor along horizontal direction B. With depth only C. Both with depth and along horizontal direction D. Horizontally only
8	Four wires of the same material are stretched by the same load. Their dimensions are given below. Which of them will elongate most.	A. Length 4 m, diameter 0.5 mm B. Length 1 m, diameter 1 mm C. Length 2 m, diameter 2 mm D. Length 3 m, diameter 3 mm
9	Divers wear special suits in order to protect them from	A. Low pressure B. Low temperature C. High Temperature D. High Pressure
10	Atmospheric pressure is commonly measured using a.	A. Hygrometer B. Monometer C. Barometer D. Thermometer
11	The most elastic material of the following is.	A. Rubber B. Steel C. Wood D. Glass
12	When a spring is compressed, what form of energy does it possess.	A. Heat B. Internal C. Potential D. Kinetic
13	Materials which do not regain their original shape after removal of the load producing deformation are termed as.	A. Rigid materials B. Hooke's materials C. Plastic materials D. Elastic materials
		A. Increases and applied to every part of the fluid

14	Pressure applied to an enclosed fluid is.	<p>B. Transmitted unchanged to every portion of the fluid and walls of containing vessel</p> <p>C. Increased and transmitted to the walls of container</p> <p>D. Diminished and transmitted to walls of container</p>
15	The pressure exerted by a man on the surface of earth will be smaller when he	<p>A. Stands on both feet</p> <p>B. Sits on the ground</p> <p>C. Sleeps on the ground</p> <p>D. Stands on one leg</p>
16	A wire is stretched by a weight w . If the diameter of the wire is reduced to half of its previous value, the extension will become	<p>A. Four times</p> <p>B. Double</p> <p>C. One fourth</p> <p>D. One half</p>
17	Pressure of 1000 bars is equivalent to	<p>A. 0.1 kPa</p> <p>B. 100 kPa</p> <p>C. 10 kPa</p> <p>D. 1 kPa</p>
18	Hook's law holds good up to	<p>A. Plastic</p> <p>B. Elastic</p> <p>C. Yield limit</p> <p>D. Proportional limit</p>
19	The atmospheric pressure will be smaller at.	<p>A. Peshawar</p> <p>B. Murree</p> <p>C. Lahore</p> <p>D. Islamabad</p>
20	Pressure of liquid in a container increases with	<p>A. Depth</p> <p>B. Volume</p> <p>C. Mass</p> <p>D. Base</p>