

Mechanical Properties of Matter

Sr	Questions	Answers Choice
1	When a spring is compressed, what form of energy does it possess.	A. Heat B. Internal C. Potential D. Kinetic
2	Hook's law holds good up to	A. Plastic B. Elastic C. Yield limit D. Proportional unit
3	The principle of a hydraulic press is based on.	A. Pascal's law B. Hooke's Law C. Principle of conservation of energy D. Principle of conservation of momentum
4	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
5	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
6	Which will exert greater pressure.	A. 3 g needle of tip area 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 2.2×10^7 kg having area 600 mm ²
7	A mass of 2 kg is hung by a spring which displaces it through 5 cm. The spring constant.	A. 4000 N/m B. 400 N/m C. 40 N/m D. 4 N/m
8	Pressure of 1000 bars is equivalent to.	A. 0.1 kPa B. 100 kPa C. 10 kPa D. 1 kPa
9	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
10	Which of the following physical properties is used in a mercury thermometer.	A. Colour B. Pressure C. Volume D. Electrical resistance
11	Divers wear special suits in order to protect them from	A. Low pressure B. Low temperature C. High Temperature D. High Pressure
12	Atmospheric pressure is commonly measured using a.	A. Hygrometer B. Monometer C. Barometer D. Thermometer
13	Which amount of water has greater density at room temperature.	A. 1 ton B. 100 g C. 1 kg D. All have same density
		A. Increases and applied to every

14	Pressure applied to an enclosed fluid is.	part of the fluid B. Transmitted unchanged to every portion of the fluid and walls of containing vessel C. Increased and transmitted to the walls of container D. Diminished and transmitted to walls of container
15	The pressure exerted by a man on the surface of earth will be smaller when he	A. Stands on both feet B. Sits on the ground C. Sleeps on the ground D. Stands on one leg
16	What is the force exerted by the atmosphere on a rectangular block surface of length 50 cm and breadth 40 cm? The atmospheric pressure is 100 k Pa.	A. 20 kN B. 200 kN C. 100 kN D. 500 kN
17	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	A. Four times B. Double C. One fourth D. One half
18	Pressure of 1 mm Hg is equal to	A. 1 atm B. 133.29 atm C. 1.316×10^{-3} atm D. 1.31×10^5 atm
19	The most elastic material of the following is.	A. Rubber B. Steel C. Wood D. Glass
20	The atmospheric pressure will be smaller at.	A. Peshawar B. Murree C. Lahore D. Islamabad