

Mechanical Properties of Matter

Sr	Questions	Answers Choice
1	Pressure of liquid in a container increase with	A. Depth B. Volume C. Mass D. Base
2	A mass of 2 kg is hung by spring which displaces it through 5 cm. the spring constnat.	A. 4000 N/m B. 400 N/m C. 40 N/m D. 4 N/m
3	Four wires of the same material are stretch by the same load. Their dimensions are give 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. Legnth 3 m, diameter 3 mm
4	Divers wear special suites in order to protect them from	A. Low pressure B. Low temperature C. High Temperture D. High Pressure
5	In a statinary fluid, the local pressur eof the fluid vary.	A. Neither with depth nor along horizontal direction B. With depth only C. Both with depth and long horizontal direction D. Horizontally only
6	When a spring in compressed, what form of energy does it possess.	A. Heat B. Internal C. Potential D. Kinetic
7	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
8	Which of the following physical properties is used in a mercury thermometer.	A. Colour B. Pressure C. Volume D. Electrical resistance
9	Hook's law hodl good up to	A. Plastic B. Elastic C. Yield limit D. Proportinal unit
10	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
11	Atmospheric pressur eis commonly measured using a.	A. Hygrometer B. Monometer C. Barometer D. Thermometer
12	Materials which does not regain its original hape after remvoal of the load producing deformationare termed as.	A. Rigid materials B. Hook's materials C. Plastic materials D. Elastic materials
13	Which will exert greater pressure.	A. 3 g needle of tip are 1 mm ² B. 4000 kg elephatn of total feed area 0.5 m ² C. A girl of mass 40 kg wearing high heel shoes of cross scional area 0.5 cm ² D. A loaded ship fo mass 2.2×10^7 kg having area 600 mm ²
14	The most elastic material of the following is.	A. Rubber B. Steel

		C. Wood D. Glass
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	SI unit of pressure is.	A. Newton B. Pascal C. Infinite D. Zero
17	Pressure of 1000 bars is equivalent to	A. 0.1 kPa B. 100 kPa C. 10 kPa D. 1 kPa
18	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 kPa.	A. 20 kN B. 200 kN C. 100 kN D. 500 kN
19	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
20	Pressure applied to an enclosed fluid is.	A. Increases and applied to every 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