

Mechanical Properties of Matter

Sr	Questions	Answers Choice
1	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
2	A wire is stretched by a weight w. If the diameter of the wire is reduce dto half of its previous value, the extension will become	A. Four times B. Double C. One fourth D. One half
3	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 cntainer
4	Hook's law hodl good up to	A. Plastic B. Elastic C. Yield limit D. Proportinal unit
5	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
6	Which of the following physical properties is used in a mercury thermometer.	A. Colour B. Pressure C. Volume D. Electrical resistance
7	Divers wear special suites in order to protect them from	A. Low pressure B. Low temperature C. High Temperature D. High Pressure
8	When a spring in compressed, what form of energy does it possess.	A. Heat B. Internal C. Potential D. Kinetic
9	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
10	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
11	The most elastic material of the following is.	A. Rubber B. Steel C. Wood D. Glass
12	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
13	Atmospheric pressur eis commonly measured using a.	A. Hygrometer B. Monometer C. Barometer D. Thermometer
		A. 3 g needle of tip are 1 mm ² B. 4000 kg elephatn of total feed area 0.5 m ²

14	Which will exert greater pressure.	<p>C. A girl of mass 40 kg wearing high heel shoes of cross sectional area 0.5 cm²</p> <p>D. A loaded ship of mass 2.2×10^7 kg having area 600 mm²</p>
15	Pressure of 1000 bars is equivalent is.	<p>A. 0.1 kPa</p> <p>B. 100 kPa</p> <p>C. 10 kPa</p> <p>D. 1 kPa</p>
16	The principle of a hydraulic press is based on.	<p>A. Pascal's law</p> <p>B. Hooke's Law</p> <p>C. Principle of conservation of energy</p> <p>D. Principle of conservation of momentum</p>
17	Pressure of 1 mm Hg is equal to	<p>A. 1 atm</p> <p>B. 133.29 atm</p> <p>C. 1.316×10^{-3} atm</p> <p>D. 1.31×10^5 atm</p>
18	What is mass of a liquid of density 50 kg m ⁻³ in a container of volume 5 m ³ ?	<p>A. 200 kg</p> <p>B. 250 kg</p> <p>C. 225 kg</p> <p>D. 275 kg</p>
19	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>
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>