Mechanical Properties of Matter

Sr	Questions	Answers Choice
1	What is mass of a liquid of density 50 kg m-3 in a container of volume 5 m3?	A. 200 kg B. 250 kg C. 225 kg D. 275 kg
2	Hook's law hodl good up to	A. Plastic B. Elastic C. Yield limit D. Proportinal unit
3	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
4	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
5	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
6	Divers wear special suites in order to protect them from	A. Low pressure B. Low temperature C. High Temperture D. High Pressure
7	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
8	Pressure of 1000 bars is equivalent is.	A. 0.1 kPa B. 100 k Pa C. 10 k Pa D. 1 k Pa
9	The most elastic material of the following is.	A. Rubber B. Steel C. Wood D. Glass
10	The pressrue 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
11	Teh pressure exdrted by a aman one the surface of earth will be smaller when be	A. Stands on both feet B. Sites on the ground C. Sleeps on the ground D. Stands on one leg
12	Which of the following physical properties is used in a mercury thermometer.	A. Colour B. Pressure C. Volume D. Electrical resistance
13	Pressure of 1 mm Hg is equal to	A. 1 atm B. 133.29 atm C. 1.316 x 10⁻³ atm D. 1.31x 10⁵atm
14	The atmospheric pressure willbe smaller at.	A. Peshawar B. Murree C. Lahore D. Islamabad
		A. 4000 N/m

15	A mass of 2 kg is hung by spring which displaces it through 5 cm. the spring constnat.	B. 400 N/m C. 40 N/m D. 4 N/m
16	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. Diminshed and transmitted to walls of cntainer
17	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
18	Pressure of liquid in a container increase with	A. Depth B. Volume C. Mass D. Base
19	Which will exert greater pressure.	A. 3 g needle of tip are 1 mm2 B. 4000 kg elephatn of total feed area 0.5 m2 C. A girl of mass 40 kg wearing high heel shoes of cross sctional area 0.5 cm2 D. A loaded ship fo mass 2.2 x10 ⁷kg having area 600 mm2
20	Which amount of water has greater density at room temperature.	A. 1 ton B. 100 g C. 1 kg D. All have same density
21	When a spring in compressed, what form of energy does it possess.	A. Heat B. Internal C. Potential D. Kinetic
22	The principle of ahydrulic press is based on.	A. Pascal's law B. Hooke's Law C. Principle of conseration of energy D. Principle of conservatin of momentum
23	Atmospheric pressur eis commonly measured using a.	A. Hygrometer B. Monometer C. Barometer D. Thermometer
24	SI unti of pressure is.	A. Newton B. Pascal C. Infinite D. Zero