

## Mechanical Properties of Matter

Sr	Questions	Answers Choice
1	Which amount of water has greater density at room temperature.	A. 1 ton B. 100 g C. 1 kg D. All have same density
2	SI unti of pressure is.	A. Newton B. Pascal C. Infinite D. Zero
3	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 <sup>7</sup> kg having area 600 mm2
4	Divers wear special suites in order to protect them from	A. Low pressure B. Low temperature C. High Temperture D. High Pressure
5	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
6	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
7	Hook's law hodl good up to	A. Plastic B. Elastic C. Yield limit D. Proportinal unit
8	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
9	Pressure of 1 mm Hg is equal to	A. 1 atm B. 133.29 atm C. 1.316 x 10 <sup>-3</sup> atm D. 1.31x 10 <sup>5</sup> atm
10	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
11	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
12	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
13	Pressure of 1000 bars is equivalent is.	A. 0.1 kPa B. 100 k Pa C. 10 k Pa D. 1 k Pa

	14	A wre is stretched by a weight w. If the diameter of the wre is reduce dto half of its previous value, the extension will become	B. Double C. One fourth D. One half
	15	When a spring in compressed, what form of energy does it possess.	A. Heat B. Internal C. Potential D. Kinetic
	16	Which of the following physical properties is used in a mercury thermometer.	A. Colour B. Pressure C. Volume D. Electrical resistance
	17	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
	18	The atmospheric pressure willbe smaller at.	A. Peshawar B. Murree C. Lahore D. Islamabad
	19	Atmospheric pressur eis commonly measured using a.	A. Hygrometer B. Monometer C. Barometer D. Thermometer
	20	The most elastic material of the following is.	A. Rubber B. Steel C. Wood D. Glass