



## 8: MECHANICAL PROPERTIES OF SOLIDS

Physics Worksheet

Standard: 11th Science

Subject: Physics

Student Name: \_\_\_\_\_

**Q1.** The Bulk Modulus for an incompressible liquid is?

1. Zero
2. Unity
3. Infinity
4. Between 0 and 1

**Q2.** Substances that break just after elastic limit is reached are known as:

1. Brittle substances.
2. Breakable substances.
3. Ductile substances.
4. Elastic substances.

**Q3.** A steel wire is suspended from a fixed end, while the other end is loaded with a weight  $W$ . This produced an extension  $x$ . As the weight is increased, the extension was also increased. A plot of extension vs load within elastic limits will give rise to:

1. A curve.
2. An ellipse.
3. A straight line.
4. A hyperbola.

**Q4.** A steel rod of length 1m and radius 10mm is stretched by a force 100kN along its length. The stress produced in the rod is

$$Y_{\text{steel}} = 2 \times 10^{11} \text{ Nm}^{-2}$$

1.  $3.18 \times 10^6 \text{ Nm}^{-2}$
2.  $3.18 \times 10^7 \text{ Nm}^{-2}$
3.  $3.18 \times 10^8 \text{ Nm}^{-2}$
4.  $3.18 \times 10^9 \text{ Nm}^{-2}$

**Q5.** The nature of molecular forces resembles with the nature of the:

1. Gravitational force.
2. Nuclear force.
3. Electromagnetic force.



# Properties Of Solids Lab Answers

**Clemens Wendtner**



## **Properties Of Solids Lab Answers:**

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