

Duration: 30 Mins

Total Marks: 10

ID: ITISKILL4993MN

Student Name: _____ Roll No: _____

1. What is the ratio between lateral strain and longitudinal strain?

- A) Poisson's ratio
B) Hooks law
C) Young's modulus
D) Bulk modulus

2. What is the term used for maximum stress attained by a material before rupture?

- A) Ultimate stress
B) Working stress
C) Compressive stress
D) Tensile stress

3. What is the formula for bulk modulus?

- A) Tensile stress/Tensile strain
B) Shear stress/Shear strain
C) Volumetric stress/Volumetric strain
D) Compressive stress/Compressive strain

4. Which is elastic material?

- A) Nylon
B) Polystyrenes
C) Polycarbonates
D) Celluloid

5. What is the ratio of ultimate load to area of original cross section?

- A) Youngs modulus
B) Ultimate stress

C) Factor of safety

D) Yield point

6. What is the unit of strain?

- A) Newton/metre²
B) Metre
C) No unit
D) Kg/cm²

7. Which is thermosetting plastic?

- A) Celluloid
B) Vinyl polymers
C) Polystyrenes
D) Melamine resins

8. What is the maximum percentage of stretch of its original length is allowable for elastic materials?

- A) 100%
B) 200%
C) 300%
D) 400%

9. Which one is the ratio of stress?

- A) Load and direction
B) Load and area
C) Load and time
D) Load and diameter

10. What is the ratio between stress and strain?

- A) Youngs Modulus
B) Poisson's ratio
C) Factor of safety
D) Yield point