Fundamentals of Mechanical Engineering

Mechanical Engineering · Answer Key · 8 Questions

1. What is the unit of measurement for force in the International System of Units (SI)?

A) Joule
B) Watt
C) Newton
D) Pascal

2. Which simple machine consists of a rigid bar pivoted on a fulcrum?

A) Lever
B) Pulley
C) Screw
D) Wedge

3. What property of a material describes its ability to return to its original shape after being deformed?

A) Plasticity
B) Elasticity
C) Brittleness
D) Hardness

4. Which thermodynamic law states that energy cannot be created or destroyed, only transformed?

A) Zeroth Law
B) First Law
C) Second Law
D) Third Law

5. What is the primary function of a bearing in a mechanical system?

A) To increase friction
B) To convert heat to work
C) To reduce friction between moving parts
D) To store electrical energy

6. Which type of stress occurs when a material is pulled apart from both ends?

A) Compression
B) Torsion
C) Shear
D) Tension

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7. What do we call the ratio of the output force to the input force in a mechanical system?

A) Efficiency
B) Mechanical Advantage
C) Power Density
D) Torque

8. Which common device is used to convert rotational motion into linear motion?

A) Ball bearing
B) Screw thread
C) Flywheel
D) Brake pad