Mechanical Engineering Basics

Mechanical Engineering · Practice Test · 15 Questions

1. Which simple machine consists of a wheel with a groove for a rope?

A) Pulley
B) Lever
C) Inclined plane
D) Screw

2. A seesaw is an example of which simple machine?

A) Wheel and axle
B) Wedge
C) Lever
D) Pulley

3. Which simple machine is used to split objects apart?

A) Screw
B) Wheel and axle
C) Wedge
D) Lever

4. What is a sloping surface used to move objects up or down called?

A) Pulley
B) Inclined plane
C) Lever
D) Wheel

5. Which simple machine is essentially an inclined plane wrapped around a cylinder?

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

6. What do gears do when they are connected together?

A) Change the colour of objects
B) Transfer motion and force
C) Make objects heavier
D) Stop all movement

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7. Which part of a bicycle acts as a wheel and axle?

A) The seat
B) The handle
C) The pedal assembly
D) The bell

8. What provides the force needed to make a machine move?

A) Energy
B) Gravity
C) Friction
D) Temperature

9. What is the force that slows down two objects sliding against each other?

A) Gravity
B) Magnetism
C) Friction
D) Electricity

10. Which tool is used to measure the length of an object in mechanical engineering?

A) Thermometer
B) Scale
C) Ruler
D) Stopwatch

11. A door handle is an example of which simple machine?

A) Wheel and axle
B) Screw
C) Wedge
D) Pulley

12. What is the main purpose of using a machine?

A) To make work easier
B) To create new materials
C) To change the weather
D) To remove all friction

13. Which of these is a rigid bar that pivots on a fixed point called a fulcrum?

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

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14. Which simple machine helps lift heavy loads using a rope?

A) Pulley
B) Screw
C) Wedge
D) Inclined plane

15. What do we call a path that an electric current flows through in a machine?

A) Battery
B) Circuit
C) Engine
D) Axle

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