

## Class 9 Physics Chapter 11 Work and Energy MCQs

**1. The formula to find the work done is**

- (a)  $W = F + s$
- (b)  $W = F \cdot s$
- (c)  $W = F - s$
- (d)  $W = F / s$

**2. If a force acting on a body causes no displacement, the work done is**

- (a) -1
- (b) 1
- (c) 0
- (d) Infinity

**3. Objects in motion possess energy and can do work; this energy is called**

- (a) Solar energy
- (b) Thermal energy
- (c) Potential energy
- (d) Kinetic Energy

**4. The sum of kinetic energy and potential energy is —————**

- (a) Mechanical energy
- (b) Thermal energy
- (c) Potential energy
- (d) Kinetic Energy

**5. 1 kilowatt =**

- (a) 1 Watt
- (b) 10 Watts
- (c) 100 Watts
- (d) 1000 Watts

6. The energy used in one hour at the rate of 1kW is known as

- (a) 10kWh
- (b) 1kWh
- (c) 1W
- (d) 1kW/h

7. What are the various factors affecting kinetic energy?

- (a) Mass
- (b) Momentum
- (c) Velocity
- (d) All the above options

8. When two identical bodies are in motion, the body with a higher velocity has

- (a) Lower Kinetic Energy
- (b) Higher Kinetic Energy
- (c) No Kinetic Energy
- (d) None of the options

9. State true or false: The object must be displaced for the work to be done.

- (a) True
- (b) False

10. If the displacement is perpendicular to the force, then the work done is said to be

- (a) -1
- (b) 1
- (c) 0
- (d) Infinity

\*\*\*\*\* Answer Key \*\*\*\*\*

- |         |         |         |         |          |
|---------|---------|---------|---------|----------|
| 1 - (b) | 2 - (c) | 3 - (d) | 4 - (a) | 5 - (d)  |
| 6 - (b) | 7 - (d) | 8 - (b) | 9 - (a) | 10 - (c) |