



Chapter 10: Work And Energy

Science Worksheet

Standard: 9th

Subject: Science

Student Name: _____

Q1. A rigid body of mass m kg is lifted uniformly by a man to a height of one metre in 30 sec. Another man lifts the same mass to the same height in 60 sec. The work done on the body against gravitation in both the cases are in ratio:

1. 1 : 2
2. 1 : 1
3. 2 : 1
4. 4 : 1

Q2. Which one of the following statements about power stations is not true?

1. Hydroelectric power stations use water to drive turbines.
2. In a power station, turbines drive generators.
3. Electricity from thermal power stations differs from that produced in hydroelectric power stations.
4. In hydroelectric power stations and thermal power stations, alternators produce electricity.

Q3. When speed of the moving object is doubled its

1. Acceleration is doubled
2. Momentum becomes four times more
3. K.E. is increased to four times
4. Potential energy is increased

Q4. 9800 joule of energy was spent to raise a mass of 50kg, the mass was raised to a height of:

1. 20m
2. 980m
3. 10m
4. None of these

Q5. A girl is carrying a school bag of 3kg mass on her back and moves 200m on a levelled road. The work done against the gravitational force will be ($g = 10\text{ms}^{-2}$)

1. $6 \times 10^3\text{J}$
2. 6J
3. 0.6J



Chapter Test A Work And Energy

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