



ST. LAWRENCE HIGH SCHOOL



A JESUIT CHRISTIAN MINORITY INSTITUTION

- **Subject- Physics** Worksheet- 2 **Class – IX**
Date-8.04.2020

Chapter- Work,energy and power

Q Answer the following questions (MCQ) :

(1×15)

1.A mechanical system tends to attain the position of-

- a.maximum kinetic energy
- b.minimum kinetic energy
- c.minimum potential energy
- d.maximum potential energy

2.A body of mass m when raised from h depth below the earth's surface to a position h distance above the earth, the change of potential energy will be

- a. $2 mgh$
- b.zero
- c. mgh
- d. $-mgh$

3.Which one is not a unit of energy?

- a.joule
- b.calorie
- c.kilowatt
- d.None of these

4.Two bodies of masses $1g$ and $4g$ move with Equal kinetic Energy. Ratio of magnitude of the moment to is

- a.4:1
- b.3:1
- c.1:2
- d.1:16

5. Due to winding of spring, a clock acquires

- a. kinetic energy
- b. no energy
- c. elastic potential energy
- d. gravitational potential energy

6. The potential energy of a body at a certain height is 200 J. The kinetic energy possessed by it when it just touches the ground is

- A. more than P.E
- B. less than P.E
- C. equal to P.E
- D. cannot be determined

7. A rain drop of radius R fell on ground from a height h . Work done by the gravitational force is proportional to

- A. R
- B. $R+h$
- C. $R \times R \times R$
- D. $R \times R$

8. Which pair of physical quantities have same units?

- A. force and work
- B. work and energy
- C. power and force
- D. work and power

9. Increase of kinetic energy equals

- A. Increase of mass
- B. work done
- C. Increase the power
- D. none of these

10. An example of kinetic energy would be

- A. a moving car
- B. a charged particles in an electric field
- C. a stretched rubber band just released
- D. all of the above

11. Water reserved in a dam possess

- A. kinetic energy
- B. potential energy
- C. both potential and kinetic energies
- D. none of these

12. Two bodies of greater and less mass have equal kinetic energy. Momentum possessed by

- A. the body of less mass is larger
- B. the body of larger mass is larger
- C. both the bodies are equal
- D. none of these

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