ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

- **Subject- Physics** **Answers of 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.maximium kinetic 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

c.mgh

3.Which one is not a unit of energy?

c.kilowatt

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

c.1:2

5.Due to winding of spring, a clock acquires

c.elastic 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

C.equal to P.E

7.A rain drop of radius R fell on ground from a height h.walk done by the gravitational force is proportional 2Walk done by the gravitational force is proportional to

C.R×R×R

8.which pair of physical quantities have same units?

B. work and energy

9.Increase of kinetic energy equals

B.work done

10.An example of kinetic energy would be

D.all of the above

11.Water reserved in a dam possess

B.potential energy

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

B.the body of larger mass is larger

13. A students caries a bag weighing 5 kg from the ground floor to his class on the first floor that is 2 m high. The work done by the boy is

(c) 100 J

14. The work done is □O□ if

(c) The body shows a displacement in perpendicular direction to the force applied.

15.One unit of electrical energy is equal to

(b) 3.6×10^6 J

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