



# ST. LAWRENCE HIGH SCHOOL



A JESUIT CHRISTIAN MINORITY INSTITUTION

- **Subject- Physics** **Worksheet- 1** **Class – IX**  
**Date-7.04.2020**  
**Chapter- Work,energy and power**

Q Answer the following questions (MCQ) :

(1×15)

- 1 . On an object the work done does not depend on
  - a .displacement
  - b.angle between force and displacement
  - c.force applied
  - d. Initial velocity of an object.
2. What is the formula of work done ?
  - a. work done = force x displacement
  - b. work done = force × velocity
  - c.work done = pressure × displacement
  - d.work done = mass × acceleration
3. When a body like earth is moving in a circular path the work done in that case is zero because
  - a.centripetal force acts in the direction of motion of the body
  - b.centripetal force acts along the radius of circular path
  - c.gravitational force along the radius of circular path
  - d. centrifugal force acts perpendicular to the radius of circular path
4. The unit of work is joule. The other physical quantity that has the same unit is
  - a. power
  - b. velocity
  - c. energy
  - d.force
5. A runner ,while moving, is facing a wind from the opposite direction. The work done by the wind on runner will be
  - a.zero
  - b. negative
  - c. positive

d. infinity

6. Which is which of the following given below quantity is a scalar quantity

a. velocity

b. force

c. work done

d. momentum

7. 1 joule is the amount of work done on an object when a force of 1 Newton displaces it along its line of action by

a. 1cm

b. 1m

c. 100 mm

d. 1km

8. Which of the following is an example of work done against force

a. getting up the stairs

b. get down with the stairs

c. walking on the flat ground

d. dropping any object down from the top.

9. The rate of change of work is

a. power

b. force

c. momentum

d. energy

10. If a person walk on horizontal road with a suitcase on his hand then the work done is zero

a. this statement is true

b. this statement is false

11. Due to application of 5 Newton force an object moves 10 metre along perpendicular direction of the force .What amount of work is done ?

a. 50 joule

b. 15 joule

c. 5 joule

d. 0 joule

12. Which of the following is equal with Newton-metre

a. joule

b. Horsepower

c. Watt

d. Pascal

13. A man is carrying heavy luggage from one platform to the other of a railway station but still according to the logics of science his work done is said to be zero. The correct reason is

a. the force is acting along the direction of displacement of luggage

b. The force is acting perpendicular to the direction of displacement of luggage

c. the forces acting opposite to the direction of displacement of luggage

d. none of these

14. If the point of application of force moves in the direction of applied force work is said to be

a. negative

b. positive

c. no work done

d. zero work done

15. A body is moving from a point A to a point B over a rough surface that causes friction due to which X work is done, the body moves back from point B to A on the same surface. Total work done will be

a. zero

b. x

c. 2x

D. none of this.

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