



# SUCCESS KEY TEST SERIES

IX (English)

(Worksheet-1 Science -1 (Ch 1,2))

Science And Technology 1-

DATE:

TIME: 1 hrs

MARKS: 20

SEAT NO:

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**Q.1 A) Solve the following questions.**

**(2)**

**Name the following**

- 1) When an object comes to rest at the end of its motion, what is its final velocity?
- 2) ..... erg = 1 joule.

**B) Choose the correct alternative and rewrite the sentence**

**(3)**

1) Joule is the unit of .....

- a. force                      b. work                      c. power                      d. both (b) and (c)

2) While dragging or lifting an object, negative work is done by .....

- a. the applied force.                      b. frictional force.  
c. gravitational force.                      d. both (b) and (c).

3) Coolie is standing with load on his head. Work done by him is zero because.

- a. load is less  
b. there is no displacement  
c. load is on his head and not on back  
d. All of the above

**Q.2 Solve the following questions. (Any two)**

**(4)**

- 1) A fast bowler takes a run-up before bowling a ball.
- 2) It is easier to stop a tennis ball as compared to a cricket ball, when both are travelling with the same velocity.

**3) Distinguish between**

Work and Energy

**Q.3 Solve the following questions. (Any two)**

**(6)**

- 1) Give four examples in which one type of energy is transformed into another type.
- 2) What is acceleration? State its unit and types.
- 3) Give five examples of circular motion.

**Q.4 Solve the following questions. (Any one)**

**(5)**

- 1) Write the general expression for work in terms of force, displacement & angle between two. Hence, write the conditions under which work done is positive, zero, negative?
- 2) What do you understand by unit work? Derive the units of work in the MKS system and CGS system and derive the relation between them.

