



SUCCESS KEY TEST SERIES

IX- Semi 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.

