

DELHI PUBLIC SCHOOL JAMMU
SESSION-2025-26
MONTH-APRIL
ASSIGNMENT SHEET

CLASS-IX

MARKS-16

SUBJECT - PHYSICS

1. A body whose position with respect to surrounding does not change is said to be in a state of:

1

- i. Rest
- ii. Motion
- iii. Vibration
- iv. Oscillation

Following question consist of two statements – Assertion (A) and Reason (R). Answer these questions selecting the appropriate option given below:

- (a) Both A and R are true and R is the correct explanation of A.
- (b) Both A and R are true but R is not the correct explanation of A.
- (c) A is true but R is false.
- (d) A is false but R is true.

2. Assertion : Displacement of an object may be zero even if the distance covered by it is not zero.

Reason : Displacement is the shortest distance between the initial and final position.

1

3. Give any two examples to explain the concept of uniform motion.

2

4. Distinguish between: Distance and Displacement.

3

5. What do you understand by the term relative motion. Give any two examples to explain that motion is relative.

5

6. Distance and displacement are two quantities that seem to mean the same but are different with different meanings and definitions. Distance is the measure of “how much distance an object has covered during its motion” while displacement refers to the measure of “how far the object actually from initial place.” Using this data answer following questions.

1. Distance is a _____ quantity.

1

ii. Give any one similarity between distance and displacement.

1

iii. Kapil travels 20 km to North but then come back to South for 40 km to pick up a friend. What is kapil's total distance?

2

OR

Rohan travels 40 km to North but then come back to South for 80 km to pick up a friend. What is Rohan's total distance?

SUBMISSION DATE: 30th OF APRIL

