DEEP PUBLIC SCHOOL HOLIDAY HOMEWORK SESSION-(2021-22)

SUBJECT-PHYSICS

CLASS-IX

MAKE A PROJECT RECORD AND WORKING MODEL OF PHYSICS (Any topic of your choice)

Chapter: Motion

Q1 : Given below are four options against each question. Choose the option which you consider the most appropriate as your answer:

- (a) If the displacement of an object is proportional to square of time, then the object moves with:
- (i) Uniform velocity

- (ii) Uniform acceleration
- (iii) Increasing acceleration
- (iv) Decreasing acceleration
- b) Which of the following can sometimes be 'zero' for a moving body?
- 1. Average velocity
- 2. Distance travelled
- 3. Average

speed

- 4. Displacement
- (i) Only (1)
- (ii) (1) and (2)
- (iii) (1) and (4)
- (iv) Only (4)
- (c) Which of the following statement is correct regarding velocity and speed of a moving body?
- (i) Velocity of a moving body is always higher than its speed
- (ii) Speed of a moving body is always higher than its velocity
- (iii) Speed of a moving body is its velocity in a given direction
- (iv) Velocity of a moving body is its speed in a given direction

- d) A car is travelling at a speed of 90 km/h. Brakes are applied so as to produce a uniform acceleration of -0.5 m/s2. Find how far the car will go before it is brought to rest?
- (i) 8100 m
- (ii) 900 m
- (iii) 625 m
- (iv) 620 m
- e) The numerical ratio of displacement to distance for a moving object is:
- (i) Always less than 1
- (ii) Equal to 1 or less than 1
- (iii) Always more than 1
- (iv) Equal to 1 or more than one
- Q-2. Write difference between rest and motion?
- Q-3. Write difference b/w uniform and non uniform motion?
- Q-4. Write differences b/w speed and velocity?
- Q-5. What is uniform and non –uniform velocity?
- Q-6. What is Acceleration? Explain uniform and Non –uniform Acceleration?
- Q-7. Write the conditions of acceleration to be Positive, negative and zero?
- Q-8.Under what condition(s) is the magnitude of average velocity of an object equal to its average speed?

DO NCERT EXERCISE OF MOTION TILL ACCELERATION TOPIC