

VIDYA BHAVAN, BALIKA VIDYAPEETH
SHAKTI UTTHAN ASHRAM, LAKHISARAI, PIN:-811311

SUBJECT:- PHYSICS

CLASS:- IXTH

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SUBJECT TEACHER:- MR. NEEL NIRANJAN

CHAPTER 1. (MOTION REVISION)(BASED ON NCERT PATTERN)

Question 1. A worker covers a distance of 40 km from his house to his place of work, and 10 km towards his house back. Then the displacement covered by the worker in the whole trip is

- (a) zero km
- (b) 10 km
- (c) 30 km
- (d) 50 km

Answer. (c) 30 km

Question 2. Rate of change of displacement is called

- (a) Speed
- (b) Deceleration
- (c) Acceleration
- (d) Velocity

Answer. d) Velocity

Question 3. Acceleration is a vector quantity, which indicates that its value

- (a) Is always negative
- (b) Is always positive
- (c) Is zero
- (d) Can be positive, negative or zero

Answer. (d) Can be positive, negative or zero

Question 4. A player moves along the boundary of a square ground of side 50 m in 200 sec. The magnitude of displacement of the farmer at the end of 11 minutes 40 seconds from his initial position is

- (a) 50 m
- (b) 150 m
- (c) 200 m
- (d) $50\sqrt{2}$ m

Answer. (d) $50\sqrt{2}$ m

Question 5. An object travels 40m in 5 sec and then another 80m in 5 sec. What is the average speed of the object?

- (a) 12 m/s
- (b) 6 m/s
- (c) 2 m/s
- (d) 0 m/s

Answer. (a) 12m/s

Question 6. The average velocity of a body is given by the expression :

- (a) $V = u + at$
- (b) $2as = v^2 - u^2$
- (c) $V_{av} = (u + v)/2$
- (d) $S = ut + \frac{1}{2} a t^2$

Answer. (c) $V_{av} = (u + v)/2$