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Physics class 9 motion mcq

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When the v-t chart is parallel to the x-axis, the body is _____. 3. The slope of the v-t is _____ for a body with properly accelerated movement. 4. For a vehicle parked in a parking lot, the displacement-time graph is _____. 5. Acceleration a _____ quantity. 6. The speed of an object in smooth circular motion is constant. 7. A number of traffic red signals are on the move that are not a car uniform moving on a crowded road. 8. The displacement of a car can be positive or zero, but it is never negative. 9. Angular displacement is measured in radians. 10. A body that falls freely is properly drafted. Question 1. A worker travels 25 miles from his home to work and 6.2 miles from his home. Then the replacement covered by the worker on the entire journey (a) zero km (b) 10 km (c) 30 km (d) 50 km Reply. (c) 30 km Question 2. Relocation rate (a) Speed (b) Deceleration (c) Acceleration (d) Speed Response. d) Speed Question 3. Acceleration is a vector quantity indicating that its value is (a) Always negative (b) It is always positive (c) It is zero (d) It can be positive, negative, or zero response. (d) Positive, negative, or zero questions can be 4. A player moves along a square ground boundary of 200 m side 50 m. The magnitude of the farmer's displacement at the end of 11 minutes and 40 seconds from his first position is (a) 50 m (b) 150 m (c) 200 m (d) 50√2 m Answer. (d) 50√2 m Question 5. An object travels 40 m in 5 seconds and 80 m in 5 seconds. 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 speed of an object is given as follows: (a) $V = u + at$ (b) $2as = v^2 - u^2$ (c) $V_{av} = (u + v)/2$ (d) $S = ut + 1/2 at^2$ Answer. (c) $V_{av} = (u + v)/2$ Question 7. SI Acceleration measurement unit (a) m/s (b) m/s² (c) m/hour (d) M Is the answer. (b) m/s² Question 8. It can be removed from the given Speed-Time graph (figure) that the object (a) moves with uniform acceleration (b) unethated speed (b) at rest (d) with uniform speed Response. (d) Smooth speed Question 9. Acceleration speed of an object – time graph (a) Shown with a line parallel to the time axis at any point on the distance axis (b) Equal to the slope of the chart below the chart (c) The area below the chart (d) Is shown with a line parallel to the distance axis at any point on the Time axis Answer. (b) CBSE Class 9 equal to the slope of THE GRAPHITE - Physics | Chapter 8 Motion | MCQs - Multiple Choice Questions Question 10. The distance of a car covered from the speed-time chart (a) Is shown by a line parallel to the distance axis at any point on the time axis (b) It is shown with a line parallel to the time axis at any point on the distance axis (c) The area below the chart is equal to the slope of the Chart (d) Area below the chart (d). (d) Area at the bottom of the chart From the Speed-Time chart given above, answer the following questions (Q11- Q15): - Question 11. From the Speed-Time chart above, the body (a) moves with Variable Acceleration (b) Zero Acceleration (c) Constant Acceleration (d) Zero speed Response. (c) Fixed Acceleration Question 12. Distance covered by the body for a period ranging from 10s to 20 s (a) 180 (b) 200 (c) 240 (d) 270 Answers. (d) 270 Questions 13. At point A body (a) is a distance from 90m (b) 180m (c) 270m (d) 350m Answer. 90m Question 14. The speed of the car at point 'B' is (a) 20m/s (b) 24m/s (c) 32m/s (d) 36m/s Answer. (d) 36m/s Question 15. On the total journey, starting with the rest, the body travelled up to (a) 270m (b) 360m (c) 450m (d) 540m Answer distance. (b) 360m Question 16. Slope of distance - what does the time graph give? (a) Acceleration (b) Uniform (c) Speed (d) both [b] and [c] depending on the graphic response time. (c) Speed Question 17. An example of a body moving at constant speed but still accelerating is (a) an object moving at constant speed on a straight path (b) An object moving at constant speed on a spiral path at constant speed (c) An object moving at constant speed on a circular path (d) An object moving at constant speed on a straight railway path Reply. (c) An object moving at constant speed on a circular path is Textbook Class 9 for Full Exercise Solutions from the Textbook, Ncert Cbse Science (Physics) Part - 8, Motion Multiple Choice Questions (MCQ) S.1: m/s² SI unit - (a) distance (b) displacement (c) (speed d) acceleration. Q.2: A car drives from town A to town B at 40 km/h and returns to town A at 60 km/h. The average speed of the vehicle during the journey - (a) 48 km/h (b) 50 km/h (c) zero (d) is none of this. Q.3: Time and relocation speed - (a) speed (b) speed (c) acceleration (d) backness Q.4: The starting speed of a car is u' It's under uniform momentum. At any given time with t speed v - (a) $v = u + at^2$ (b) $v = u + 1/2 at^2$ (c) $v = u + at$ (d) $v = u$. Q.5: A s = $ut + 1/2 at^2$ with a uniform acceleration and the distance of a car with starting speed over time. This conclusion - (a) Newton's first law (b) Newton's second law (c) Newton's third law (d) Does not result from any of this. Q.6: A ball is thrown vertically upwards. It rises to a height of 50 m and returns to the shooter. (a) the total distance covered by the ball is zero. (b) the net displacement of the ball is zero. (c) displacement 100 m. (d) none of this. Q.7: A vehicle with a speed of 35 km/h in 12 minutes (a) 7 km (b) 3.5 km (c) 14 km (d) 28 km Q.8: When the graph of an quantity results in a straight line, quantities (a) both constant (b) equal (c) directly proportional (d) inversely proportional Q.9: An object moving along a straight line at a speed of 20 m/s passes through an acceleration of -4 m/s². After two seconds, its speed - (a) -8 m/s (b) 12 m/s (c) 16 m/s (d) 28 m/s. Q.10: Increases a vehicle speed from 20 km/h to 30 km/h in 10 seconds. Acceleration (a) 30 m/s² (b) 3 m/s² (c) 18 m/s² (d) 0.83 m/s² Q.11: An object (b) that needs to be accelerated at a constant speed (a) cannot be accelerated (c) to constant speed (d). Q.12: The distance travels by an object. (a) zero speed (b) constant speed (c) constant acceleration (d) single-to-straight speed is said to move with Q.13: a particle moves with positive acceleration to one straight. Speed-time graph (a) a straight line parallel to the time axis (b) will be a straight line An angle obtuse to the time axis (c) sloped at an acute angle to a straight line time axis (d) none of this. Q.14: The slope of the speed-time graph (a) speed (b) speed (c) acceleration (d) momentum Uverir Q.15: Gains constant acceleration for 20 seconds after a particle begins rest. If you travel s1 within the first 10 seconds and a distance s1 in the next 10 seconds, (a) s2 = s1 (b) s2 = 2s1 (c) s2 = 3s1 (d) s2 = 4s1 Q.16: In which of the following situations the object (a) decreased speed (b) moves upwards, with constant speed (d) along the horizontal q path with constant speed (d) along the circular path(d) does not include an acceleration or reass rela limit.17 : A person's radius R. Travel distance πR along the perimeter of an apartment. Person's displacement (a) R (b) 2R (c) 2πR (d) zero Q.18: The speed of an object is directly proportional to the time that has passed. Objects (a) single-straight speed (b) single-to-straight vest (c) single-to-straight acceleration (d) variable acceleration Responses: 1 - d. 2 - a. 3 - b. 4 - c. 5 - d. 6 - b. 7 - a. 8 - c. 9 - b. 10 - d. 11 - b. 12 - b 13 - c. 14 - c. 15 - c. 16 - d. 17 - b - c. 18. MOTION - more work

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