Name of Student	Class	Subject	Board	Chapter
	9 th	Physics	FB	02
Date :	Objective			Teacher Remarks

Section - A

Q. No.1:- Circle the correct option. Each part carries one mark.

01	A body has translatory motion if it moves along a:							
а	Straight line	b	Circle	С	Line without rotation	d	Curved path	
02	The motion of a body	of a body about an axis is called:						
а	Circular motion	b	Rotatory motion	С	Vibratory motion	d	Random motion	
03	Which of the following	ng is a vector quantity?						
а	Speed	b	Distance	С	Displacement	d	Power	
04	If an object is moving with constant speed then its distance-time graph will be a straight line:							
a	Along time-axis	b	Along distance-axis	С	Parallel to time-axis	d	Inclined to	
							time-axis	
05	A straight line parallel to time-axis on distance-time graph tells that the object is:							
a	Moving with	b	At rest	С	Moving with	d	In motion	
	constant speed				variable speed			
06	By dividing displacement of a moving body with time, we obtain:							
a	Speed	b	Acceleration	С	Velocity	d	Deceleration	
07	A ball is thrown vertically upward. Its velocity at the highest point is:							
а	-10ms-1	b	Zero	С	10ms-2	d	None of these	
08	A change in position is called:							
a	Speed	b	Velocity	С	Displacement	d	Distance	
09	A train is moving at a speed of 36kmh-1. Its speed expressed in ms-1 is:							
а	10ms ⁻¹	b	20ms ⁻¹	С	25ms ⁻¹	d	30ms ⁻¹	
10	A car starts from rest. It acquires a speed of 25ms-1 after 20 s. the distance moved by the car during this							
	time is:							
a	31.25 m	b	250 m	С	500 m	d	5000 m	
11	Straight line motion at a body is known as:							
а	Linear motion	b	Circular motion	С	Random motion	d	Rotatory motion	
12	The rate of the displacement of a body is called:							
a	Velocity	b	Speed	С	Acceleration	d	Distance	

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Section - B

Q. No.1:- Attempt any eleven parts. The answer of each part should not exceed 3 to 4 lines.

(11×3=33).

01	Why vector quantities cannot be added and	02	Can a body moving at a constant speed have
	subtracted like scalar quantities?		acceleration?
03	In the above problem, find the time taken by the	04	Difference between Scalars and vectors.
	train to stop after the application of brakes.		
05	Difference between Linear and random motion.	06	Difference between speed and velocity.
07	Derive the first equation of motion for uniformly	08	Sketch a distance-time graph for a body moving
	accelerated rectilinear motion.		with variable speed?
09	A train starts from rest with an acceleration of	10	A car has a velocity of 10ms-1. It accelerates at
	0.5ms-2. Find its speed in kmh-1, when it has		0.2ms-2 for half minute. Find the distance
	moved through 100m.		travelled during this time and the final velocity of
			the car.
11	Differentiate between positive and negative	12	Describe translatory motion with the help of
	acceleration?		examples?
13	Define average speed.	14	Define acceleration?
15	What is the purpose of distance-time graph? How		
	it is plotted?		

Q. No.4:- Attempt any TWO questions. All questions carry equal marks:

(2×10=20)

- Q. No.1:- (a). Explain translatory motion and give examples of various types of translatory motion.
 - (b). A cricket ball is hit vertically upwards and returns to ground 6 s later. Calculate:

A. maximum height reached by the ball.

B. Initial velocity of the ball

Q. No2:- (a). How are vector quantities important to us in our daily life?

(b). Prove that $2aS = Vf^2 - Vi^2$

Q. No.3:- (a). When a body is said to be at rest? Give an example of a body that is at rest and is in motion at the s	ame
time.	

(b).A train starts from rest. It moves through 1 km in 100 s with uniform acceleration. What will be its speed at the end of 100 s?