

G-W CLASSES, GONDIA

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CHAPTER-MOTION GWPP-02

CLASS-IX			SUBJECT-SCIEN	CE
1. What does the sl	ope of velocity – time gra	uph give?		
(a) Distance	(b) displacement	(c) Acceleration	(d) Change in velocity.	[1]
2. The displacemen	at of the body can be-			
(a) Positive	(b) negative	(c) Zero	(d) All of these.	[1]
3. Which of the following	lowing gives both direction	on and magnitude-		
(a) scalar	(b) vector	(c) Both	(d) None.	[1]
4. If a moving body	y comes to rest, then its ac	ecceleration is-		
(a) Positive		(b) negative		
(c) Zero		(d) All of these depending u	pon initial velocity.	[1]
5. A body is movin	g with a velocity of 12m/	s and it comes to rest in 18m	n, what was the acceleration?	[2]
6. A body starts fro	om rest and moves with a	uniform acceleration of 4m/	s ² until it travels a distance of	800 m,
find the find veloci	ty?			[2]
7. The driver of a c	ar traveling along a straig	tht road with a speed of 72K	mph observes a signboard wh	ich give
the speed limit to b	e 54Kmph. The signboard	d is 70m ahead when the dri	ver applies the brakes. Calcula	ate the
acceleration of the	car which will cause the c	car to pass the signboard at t	he stated speed limit?	[3]
8. Differentiate bet	ween scalars and vectors?			[2]
9. The displacemen	t x of a particle in meters	along the x-axis with time	't' in seconds according to the	e
equation- X= 20m	+(12 <i>m/s</i>)t (a) draw a grap	oh if x versus t for $t = 0$ and	t = 5 sec (b) What is the displacement	lacement
come out of the par	ticles initially? (c) What	t is slope of the graph obtain	ed?	[3]
10. The velocity of	a body in motion is recor	ded every second as shown	calculate	
the – (a) Accelerat	ion (b) distance travelled	and draw the graph.		[3]

Time	0	1	2	3	4	5	6	7	8
velocity	62	54	48	42	36	30	24	18	12

- 11. Draw the graph for uniform retardation –
- (a) position time graph (b) velocity time (c) Acceleration- time

[3]

13. Derive the third equation of motion- v^2 - $u^2 = 2as$ graphically?

[3]