TEST NO. 2
CH – 2

PHYSICS **CLASS 9TH – 2020** **Paper: (Objective Type)**
Time Allowed: 15 Minutes **Maximum Marks: 12**

Note : You have four choices for each objective type question as A , B, C and D. The choice which you think is Correct, fill that circles in front of that question number. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero mark in that question.

Q.1	QUESTIONS	(A)	(B)	(C)	(D)
1.	A body has translator motion if it moves along a.	Circle	Straight line	Curved path	Line without rotation
2.	The motion of body in straight line is.	Random motion	Circular motion	Linear motion	Translatory motion
3.	The spinning motion of a body its own axis is called.	Circular motion	Vibratory motion	Rotatory motion	Random motion
4.	A change in position is called	Speed	Velocity	Displacement	Distance
5.	A ball is thrown vertically upward, its velocity at the highest point is.	-10 ms^{-1}	10 ms^{-1}	0	100 ms^{-1}
6.	36 Kmh-1 is equal to.	25 ms^{-1}	20 ms^{-1}	10 ms^{-1}	5 ms^{-1}
7.	Falcon can fly at speed of	200 Kmh^{-1}	17 Kmh^{-1}	100 Kmh^{-1}	70 Kmh^{-1}
8.	Which quantity is scalar?	Force	Power	Velocity	Toreque
9.	By dividing displacement of a moving body with time, we obtain	Speed	Acceleration	Velocity	Deceleration
10.	The Unit of acceleration is.	Nm	ms^{-1}	ms^{-2}	Kgm^{-1}
11.	The motion of the pendulum of a clock is .	Rotatory	Vibratory	Linear	Random
12.	The motion of a body about an axis is called.	Circular motion	Rotational motion	Random motion	Vibratory motion

	A B C D		A B C D		A B C D		A B C D		A B C D
1	Ⓐ Ⓑ Ⓒ Ⓓ	4	Ⓐ Ⓑ Ⓒ Ⓓ	7	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ	13	Ⓐ Ⓑ Ⓒ Ⓓ
2	Ⓐ Ⓑ Ⓒ Ⓓ	5	Ⓐ Ⓑ Ⓒ Ⓓ	8	Ⓐ Ⓑ Ⓒ Ⓓ	11	Ⓐ Ⓑ Ⓒ Ⓓ	14	Ⓐ Ⓑ Ⓒ Ⓓ
3	Ⓐ Ⓑ Ⓒ Ⓓ	6	Ⓐ Ⓑ Ⓒ Ⓓ	9	Ⓐ Ⓑ Ⓒ Ⓓ	12	Ⓐ Ⓑ Ⓒ Ⓓ	15	Ⓐ Ⓑ Ⓒ Ⓓ

نوٹ: معروضی سوال نامے کو توجہ سے پڑھیں اور ہر MCQ کی درست آپشن A,B,C,D کو پین کی سیاہی یا مار کر سے اس طرح پُر کریں کہ سیاہی دائرے سے باہر نہ نکلے۔ ایک سے زیادہ دائروں کو پُر کرنے یا کاٹ کر پُر کرنے کی صورت میں مذکورہ جواب غلط تصور ہوگا۔

TEST NO.2
CH – 2

PHYSICS **CLASS 9TH – 2020** **Paper : (Essay Type)**
Time Allowed: 1:45 hours **Maximum Marks:48**

(PART – I)

2. Write short answers to any Five (5) questions: **10**

(i) Define Uniform Acceleration.
(ii) Define random motion.
(iii) Define acceleration and write its SI unit
(iv) Sketch a velocity time graph for the motion of the body. From the graph explaining each step calculate total distance covered by the object.
(v) Explain graphically object moving with constant speed.
(vi) Sketch speed time graph.
(vii) Sketch the distance time graph for a body stating from rest.
(viii) A car starts from rest. Its velocity becomes 20 ms^{-1} in 8 s. Find the acceleration.

3. Write short answers to any Five (5) questions: **10**

(i) A sprinter completes its 100 meter race in 12 s. Find his average speed.
(ii) Define uniform speed and uniform velocity.
(iii) Differentiate between distance and displacement.
(iv) Define rest and motion.
(v) Write types of motion.
(vi) Difference between scalar and vector.
(vii) Difference between speed and velocity.
(viii) How is a vector represented?

4. Write short answers to any Five (5) questions: **10**

(i) Define rotatory motion. With example.
(ii) How vector quantities are represented graphically?
(iii) Differentiate distance and displacement.
(iv) Define vector and write the name of two vector quantities important of our daily life.
(v) Define gravitational acceleration and write its value is SI unit.
(vi) What is meant by positive and negative acceleration?
(vii) Explain graphically the object is at rest.
(viii) Convert 20 ms^{-1} speed in Kmh^{-1}

(PART – II)

Note : Attempt any TWO questions.

5. (a) Prove 2nd equation of motion by speed-time graph. **4**
(b) A train starts from rest with an acceleration of 0.5 ms^{-2} . Find its speed in Kmh-1. When it has moved through 100 m **5**

6. (a) Prove it graphically by diagram $2as = vi^2 - vf^2$ **4**
(b) A cricket ball is hit vertically upward and returns to ground 6 s later. Calculate (i) maximum height reached by the ball. (ii) Initial velocity of the ball. **5**

7 (a) Differentiate between distance and displacement. **4**
(b) A stone is dropped from the top of a tower. The stone hits the ground after 5 second. Find a) The height of the tower b) The velocity with which the stone hits the ground **5**