MOTION AND TIME

Single Choice Questions:

1. In uniform motion, the speed of the object is :

   (A) Variable   (B) Fixed   (C) Changing   (D) Can't say

2. 1 km/h = ☐ m/s

   (A) 18/5   (B) 18/6   (C) 5/18   (D) 5/19

3. The S.I. unit of distance is _____ .

   (A) Kilometre   (B) Metre   (C) Centimetre   (D) Millimetre

4. Distance covered is measured by _____ in vehicles.

   (A) speedometer   (B) Voltmeter   (C) Odometer   (D) Galvanometer

5. Speed is always _____ for motion.

   (A) Positive   (B) Zero   (C) Negative   (D) Can't say

[B] Fill in the blanks.

1. Motion of a fan is an example of _____ .

2. Motion of a bird is an example of _____ .

3. The metallic ball is called _____ of the pendulum.

4. The maximum displacement from mean position to one of its exterme position is called _____ .

5. Distance is taken on _____ and time is taken on _____ .

[C] Answer the following questions

1. What is time period of a simple pendulum ? Write formula also.

2. What is oscillatory motion ?

3. Convert the following in m/s.

   (a) $18\,\dfrac{km}{h}$ (b) $90\,\dfrac{km}{h}$

4. Convert the following in $\dfrac{km}{h}$.

   (A) 15 m/s   (B) 30 m/s

5. Define uniform motion with diagram.

6. What is speed ? Write its formula.

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[A]Single Choice Questions:

1. Simple pendulum is an example of _____motion.

    (A) Random   (B) Oscillatory   (C) Citcular   (D) Traslational

2. The S.I. unit of time is _____.

    (A) Minute   (B) Hour   (C) Second   (D) Day

3. Distance time graph is always :

    (A) Positive   (B) Negative   (C) Constant   (D) Decreasing

4. The S.I. Unit of speed is _____.

    (A) m/s   (B) km/h   (C) cm/s   (D) km/min

5. Speed is measured by :

    (A) Odometer   (B) Speedometer   (C) Voltmeter   (D) None of these

[B]Match the following

(a) 5 m/s	1. Uniform motion
(b) Speed fixed	2. 18 km/h
(c) Maximum displacement	3. Distance/ time
(d) Speed	4. Depend on path
(e) Distance	5. Amplitude

[C] Answer the following question

1. The distance between two cities in 200 km. The time taken by a bus to cover this distance is 4 hours. Calculate ther speed of the bus.

2. Ram runs at a speed of 4 m/s for 1 min 20 second. Calculate the distance covered.

3. What in non-uniform motion ? Draw diagram.

4. An ant covers 20 m in 5 seconds.Calculate its speed.