I   Fill in the blanks.

a) The SI unit of frequency is _____

b) A _____ is a device used to measure the distance in automobiles.

c) The intersecting point of two axes   on a graph paper is called its_____

d) The maximum displacement of bob from the mean position on either side is called_____

e) A _____ is one billionth of a second.

f) The principle of _____motion is used in mechanical and digital clocks and watches.

II Answer the following questions.

Q1a) Draw the distance – time graph for the given data.

Time Taken (hr)	0.5	1.0	1.5	2.0	2.5	3.0
Distance Travelled (km)	25	50	75	100	125	150

What is the distance travelled at time 1.25 hour?

b)Time Taken (s)	0	1	2	3	4	5
Distance Travelled (m)	0	10	25	45	65	90

Q2 Convert a) 72km/hr into m/s   b) 50m/s into km/hr

Q3 A simple pendulum takes 45 seconds for 15 oscillations . Find the time period.

Q4 What is simple pendulum? Draw a simple pendulum and label its mean and extreme position.

Q5 A car moving at an average speed of 50km/hr takes 5 hr to reach its destination. Find the distance covered.

III Choose the correct option.

1) The length of shadow is longest at
   a) 8.00 a.m.   b) 10.am.   c) 12.00 noon   d) 2.00 p.m.

2) The distance- time graph of a car plotted with time on the X axis and distance on Yaxis. The graph is a straight line parallel to the X axis. Which of the following is true about the car?
   a) It is in uniform motion   b) It is in non uniform motion
   c) It is not moving   d) It is moving very fast

3) Which of the following is in uniform motion?
   a) A bullet travelling with a constant speed in a straight line.
   b) A man riding on cycle moving on curved road.
   c) An ant moving on a ground.
   d) All of these

4) Which of these will measure time most accurately?

   a) Sand clock   b) Pendulum clock   c) Sundial   d) Quartz Watch

5) Which of these is not a unit of time?
   a) hour   b) minute   c) second   d) metre/second

6) The time period of a pendulum depends upon

   a) The mass of the bob   b) The material of the bob
   c) The length of the pendulum   d) The size of the bob

7) Which of the following is
   a) Wilting of leaves   b) Ripening of fruits   c) Swinging of pendulum
   d) Writing on a paper

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