Chapter-3

Worksheet-1

Section 1

Q1. Define Speed how it is related with motion?

Q2. Explain the working of a simple pendulum

Q3. What is an oscillation?

Q4. Define Time period of a simple pendulum

Q5. Differentiate between speedometer and Odometer.

Q6. How scale is decided for a distance time graph?

Q7. What quantity is depicted by Slope of a distance time graph? How?

Q8. Draw graphs for an object in Uniform motion and Object at rest.

Q9. Draw a distance time graph using the following data.

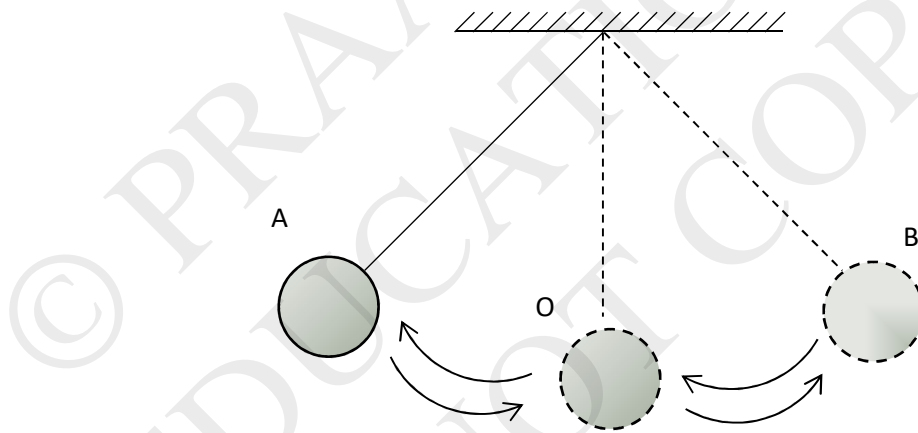| Distance	Time
0	0
5	15
15	30
30	45
40	100
60	120

Q10. How Distance covered and time taken are calculated using speed?

Section 2

Q11. A Car travels 30 km in 50 minutes. The speed of the bus is

     a) 0.6 m/s
     b) 10 m/s
     c) 3.0 m /s
     d) 3.6 m/s

Q12. The time period of a simple pendulum is the time taken by it to travel from

     a) A to B and back to A
     b) O to A, A to B and B to A
     c) B to A, A to B and B to O
     d) A to B

Q13. Nearly all the clocks make use of

     a) straight line motion
     b) periodic motion
     c) random motion

d) circular motion

Q14. A simple pendulum takes 54 sec. to complete 18 oscillations. What is its time period?

     a) 2.1 s
     b) 3 s
     c) 0.33 s
     d) 6 s

Q15. Which of the following cannot be used for measurement of time?

  a) A leaking tap
  b) Simple pendulum
  c) Shadow of an object during the day
  d) Blinking of eyes

Q16. Which of these is speed?

     a) 10 m
     b) 10 m/s^{-1}
     c) 10 m/s
     d) 10 s/m

Q17. Time between one sunrise and the next sunrise was called a _____

     a) Eclipse
     b) Day
     c) Night

d) Sundial

Q18. Motion of objects can be presented in pictorial form by their
_____ graph
    a) Speed
    b) Distance-Time
    c) Bar
    d) Chart

Q19. Kamlesh can type 2700 hundred words in half an hour. What is
its typing speed in words/min?
    a) 900
    b) 90
    c) 99
    d) 81000

Q20. Which of the following does NOT show oscillatory motion?
    a) Swing
    b) Fan
    c) See-Saw
    d) Pendulum