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 Ab) O to A, A to B and B to Ac) B to A, A to B and B to Od) 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