

Chapter 13-Test-01

Total Marks:20

Time:45 Min

Note: Q1-Q5 of one marks each and Q6-Q12 of 2 marks each. One marks for presenting the solutions.

Q.1: What is the basic unit of time ?

- (A)Second
- (B)Minute
- (C)Hour
- (D)None

Q.2: How many seconds in a year ?

- (A) $365*24*60*60$
- (B) $24*60*60$
- (C) $24*60*60*353$
- (D) $24*60*60*300$

Q.3: Which of the following is not the straight line motion ?

- (A)Motion of a horse pulling a cart on a straight road.
- (B)Motion of car on a horizontal road
- (C)Motion of your hands while running.
- (D)Motion of wooden block on a horizontal path.

Q.4: The distance between the home and school is 20km. A car takes 1000 seconds. Calculate the speed of car ?

- (A)200000 m/s
- (B)20 m/s
- (C)5 m/s
- (D)None

Q.5: A boy daily runs 10 km in 5 hours. Calculate the distance covered in 15 days ?

- (A)75 km
- (B)150 km
- (C)100 km
- (D)None

Q.6: The distance traveled by a car and the time taken by it to cover the distance is given in below table: find out the speed(km/h) of the car.

S.No.	Time(hours)	Distance(km)
1	0	0
2	5h	10 km
3	10 h	20km
4	15 h	30km

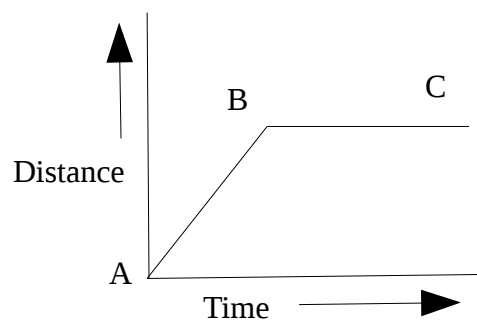
5	20 h	40km
6	25h	50 km

Q.7: Draw and explain in one line speed- time(V-t) graph for following scenarios:

1. A car is moving with a constant speed.
2. A car parked on high way.

Q.8: Tanya takes 30 minutes from her house to reach her school by car. If the car has a speed of 2 m/s, calculate the distance between her house and the school.

Q.9: The distance time graph for a car is given below. Describe the behavior of graph for AB and BC.



Q.10: The odometer of a car reads 3.5 km when the clock shows the time 08:40:10 AM. What is the distance(m) moved by the car, if at 08:40:20 AM, the odometer reading has changed to 3.6 km? Calculate the speed of the car in m/s during this time.

Q.11: Write down the example of circular motion and oscillatory motion and their definition.

Q.12: A car moves with a speed of 80 km/h for 30 minutes and then with a speed of 120 km/h for the next 30 minutes. Calculate the total distance(km) covered by the car in 60 minutes.

Answer:

1. **A**

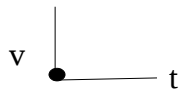
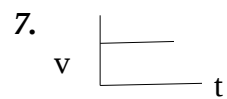
2. **A**

3. **C**

4. **B**

5. **B**

6. **2 km/h**



8. **3600 m**

9. **AB-- Straight line motion and BC-- rest**

10. **100m, 10m/s**

11. **Circular Motion : pedal of bicycle in motion, Oscillatory Motion: motion of pendulum.**

12. **100 km**

For any further query:

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