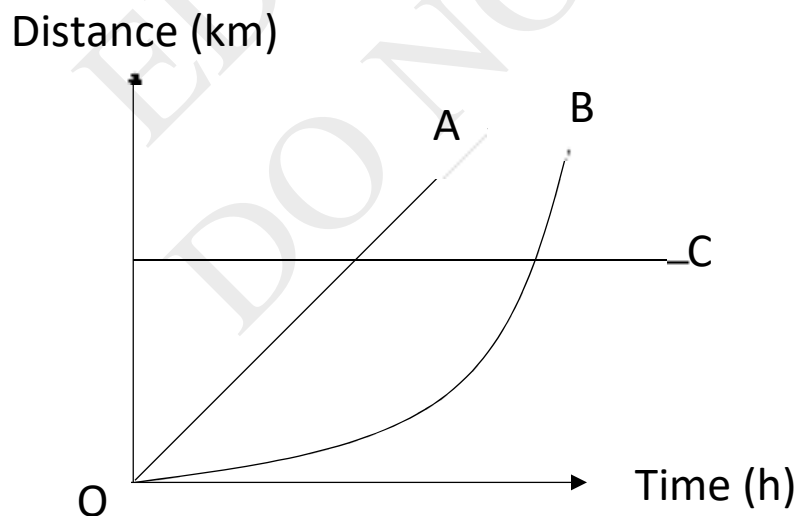


## Chapter-3

### Worksheet-2

#### Section 1

- Q1. Briefly explain how will decide which object is moving fast and which one is moving slow.
- Q2. If you did not have a clock, how would you decide what time of the day is?
- Q3. Determine the number of seconds there in a week.
- Q4. Name the different types of graphs. Explain each of them briefly.
- Q5. Differentiate between a uniform and non-uniform motion
- Q6. Briefly mention how many types of motion are there.
- Q7. Express your age in seconds.
- Q8. The following distance-time graph of three objects (A, B and C) are given. What can you say about the motion of the objects?



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

<b>Odometer Reading</b>	<b>Time</b>
45620	10:00 AM
45640	10:30 AM
45660	11:00 AM
45680	11:30 AM
45700	12:00 PM
45720	12:30 PM

Q10. How can we increase speed keeping distance constant?

### **Section 2**

Q11. What is the relation between distance and speed?

- a) Distance = Speed  $\times$  Time
- b) Distance = Speed/Time
- c) Distance = Time/Speed
- d) None of the above

Q12. How will you convert the speed given in km/h to m/s?

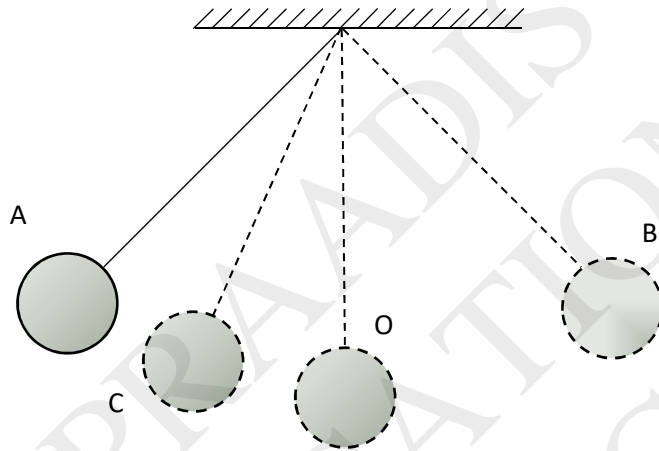
- a) By multiplying with 5/16
- b) By multiplying with 6/5
- c) By multiplying with 18/5
- d) By multiplying with 5/18

Q13. Which one records the distance travelled by a vehicle?

- a) Speedometer
- b) Manometer
- c) RPM meter

d) Odometer

Q14. Time taken by the bob to move from A to C is  $t_1$  and from C to O is  $t_2$ . The time period of this simple pendulum is



- a)  $(t_1 + t_2)$
- b)  $2(t_1 + t_2)$
- c)  $3(t_1 + t_2)$
- d)  $4(t_1 + t_2)$

Q15. With what speed should a car travel so that it can cover a distance of 10 km in 10 min?

- a) 1 kmph
- b) 5 kmph
- c) 12 kmph
- d) 60 kmph

Q16. Which of the following is the most suitable device for measuring the time the runners take in a 100 m marathon?

- a) Hourglass
- b) Stopwatch
- c) Pendulum
- d) Sun dial

Q17. Which of the following is given incorrectly?

- a) Speedometer: Speed
- b) Odometer: Odour
- c) Anemometer: Wind speed
- d) Stopwatch: Time

Q18. A person is seated in a train under motion. With reference to which of the following surroundings is he at rest?

- a) Person watching him from the front seat
- b) Person watching him from the ground
- c) Trees on the ground
- d) A car moving in the opposite direction to the train

Q19. In a 100 m race Sana and Arundhati ran at an average speed of  $6.5 \text{ ms}^{-1}$  and  $15.5 \text{ ms}^{-1}$

respectively. If 12 seconds is the time taken in school records for 100 metre race, then which of the following can be true?

- a) Sana broke the record
- b) Arundhati broke the record
- c) Both Sana and Arundhati broke the record

d) Neither Sana nor Arundhati broke the record.

Q20. Melissa takes 20 minutes to reach his school with a speed of  $4 \text{ ms}^{-1}$ .

How far is his school from home?

- a) 3.6 km
- b) 4.8 km
- c) 4 km
- d) 3.4 km

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