

## Time & Distance Questions for Competitive Exams Pdf

1. A flight of Jet Airways from Delhi to Mumbai has an average speed of 700 km/hr without any stoppage, whereas a flight of Kingfisher from Delhi to Mumbai has an average speed of 560 km/hr with stoppage at Baroda. What is the average stoppage time per hour of Kingfisher flight if both the planes fly at the same speed?

- a. 8 min
- b. 12 min
- c. 16 min
- d. 24 min

Ans: B

Due to stoppage, Kingfisher flight covers  $(700 - 560)$   
= 140 km less per hour.

Time taken to cover 140 km =  $\left(\frac{140}{700} \times 60\right)$  min = 12 min.

Hence, stoppage time per hour = 12 min.

2. An athlete claimed that his timing for a 100 m dash should be corrected because the starting signal was given by a gun fired from a point 10 m away from him and the timekeeper was standing close to the gun. The error due to this could be (in seconds).

- a. 0.03
- b. 0.1
- c. 0.5
- d. 0.7

Ans: A

Error = Time taken to cover 10 m at 300 m/sec

$$= \left(\frac{10}{300}\right) \text{sec} = \frac{1}{30} \text{sec} \approx 0.03 \text{sec.}$$

3. Train A leaves Ludhiana for Delhi at 11 a.m, running at the speed of 60 km/hr. Train B leaves Ludhiana for Delhi by the same route at 2 p.m. on the same day, running at the speed of 72 km/hr. At what time will the two trains meet each other?

- a. 2 a.m. on the next day
- b. 5 a.m. on the next day

- c. 5 p.m. on the next day
- d. none of these

Ans: B

Distance covered by train A from 11 a.m. to 2 p.m. *i.e.*,  
in 3 hrs =  $(60 \times 3) = 180$  km.

Relative speed =  $(72 - 60)$  km/hr = 12 km/hr.

Time taken to cover 180 km at relative speed

$$= \left( \frac{180}{12} \right) \text{hrs} = 15 \text{ hrs.}$$

So, the two trains will meet 15 hrs after 2 p.m. *i.e.*, at 5  
a.m. on the next day.

4. A thief is noticed by a policeman from a distance of 200 m. The thief starts running and the policeman chases him. The thief and the policeman run at the speed of 10 km/hr and 11 km/hr respectively. What is the distance between them after 6 minutes?

- a. 100 m
- b. 120 m
- c. 150 m
- d. 160 m

Ans: A

Speed of thief = 10 km/hr

Speed of policeman = 11 km/hr

Relative speed of policeman with respect to thief

$$= (11 - 10) \text{ km/hr} = 1 \text{ km/hr}$$

Thief is noticed by a policeman from a distance of  
200m

$$\text{Distance covered in 6 minutes} = \frac{1000}{60} \times 6 = 100 \text{ m}$$

Distance between them after 6 minutes

$$= 200 - 100 = 100 \text{ m}$$

5. A car covers a distance from Town I to Town II at the speed of 56 km/hr and from Town II to Town I at the speed of 53 km/hr. What is the average speed of the car?

- a. 53.5 km/hr
- b. 54 km/hr
- c. 55 km/hrd

d. 54.5 km/hr

Ans: D

$$\begin{aligned}\text{Average speed} &= \left( \frac{2 \times 56 \times 53}{56 + 53} \right) \text{km/hr} = \left( \frac{5936}{109} \right) \text{km/hr} \\ &= 54.45 \text{ km/hr} \approx 54.5 \text{ km/hr}.\end{aligned}$$

1.