

WEEKLY TEST - II

(Topics: Time & Distance)

Time: 45 Minutes.

1. A boat covers 36 km upstream and 54 km in 6 hours each. Find the speed of the boat in kmph ?
a) 1.5 kmph b) 2.0 kmph c) 6 kmph
d) 7.5 kmph e) None of the above
2. A car covers $\frac{1}{3}$ of the journey at 40 mph, $\frac{1}{4}$ at 25 mph and the remaining at 5 mph. Find the average speed? (Write your answer)
3. A Train crosses a pole in 1 second and a platform of length 300 meters in 3 seconds. Find the length of the train in meters?
a) 50 meters b) 100 meters c) 150 meters
d) 200 meters e) 300 meters
4. A train travels at x kmph for the first 15 mins, $2x$ kmph for the next 20 mins and x kmph for next 10 mins. If it has to cover 390 Km in these 45 min, find x .
a) 6 b) 360 c) 120
d) 60 e) 600
5. If I walk at 4 kmph, I reach 10 mins late. If I walk at 6 Kmph, I reach 5 mins early. Find distance of my office in Km?
a) 5 Km b) 6 Km c) 4 Km
d) 7.5 Km e) None of the above
6. Two trains of equal length cross each other in time ' T ' in opposite direction. If they travel in the same direction they overtake each other in time ' t '. Find the time taken by the faster train to overtake the slower train when the slower train is at rest?
a) $Tt/(t+T)$ b) $(T+t)/2$ c) $(T+t)/2$
d) $2tT/(T+t)$ e) 3.0 Kmph
7. Two trains T1 and T2 start from the same stations for the same destination D. T1 starts at 9:00 am with a speed of 60 Kmph and T2 starts at 11:00 am with a speed of 75 kmph. At what time will T2 overtake T1?
a) 5.00 PM b) 7:00 PM c) 10.00 PM
d) 11.00 PM e) 1.00 AM (next day)

8. Two trains x and y travel in opposite directions with speeds 20 kmph and $100/3$ kmph. If the distance between them is 100 km. Find the distance covered by the slower train when it crossed the faster train?
- a) 27.5 Km b) 37.5 Km c) 62.5 Km
d) 72 Km e) 87.5 Km

9. A boat covers 24 km upstream and 36 km downstream in 6 hours and 36 km upstream and 24 km downstream in 6.5 hours. Find the speed of the water current?
- a) 5 kmph. b) 6 kmph c) 4 kmph
d) 2 kmph. e) 10 kmph.

10. A beats B by 20 meters in a 1000 meter race. B beats C by 15 meters in a 500 meter race. A will beat C by how many meters in a 100 meter race?
- a) 3.66 meters b) 4.54 meters c) 4.94 meters.
d) 5.00 meters. e) 5.88 meters.

11. A and B can complete a job in 12 days together. After first 3 days A left the job and B completed the remaining job in 24 days alone. A alone would have completed the total job in how many days?

a) 19.2 days b) 32 days c) 24 days d) 23.8 days e) 36 days

12. Machine A can produce 500 bulbs in 3 hours and machine B can produce 1000 bulbs in 4 hours. If they work together, in how many minutes will they produce 1000 bulbs?

a) 140 minutes b) 144 minutes c) 160 minutes d) 180 minutes e) 216 minutes.

13. A, B and C can paint a house in 8, 6 and 12 hours each. A works alone for the first 6 days and leaves. B works alone for the next 8 days and leaves. If they get a contract of painting 3 houses, in how many days will C complete the contract?
- a) 11 days b) 12 days c) 18.8 days d) 20 days e) 22.5 days.

14. 100 men begin to work on a job, which should be completed in 40 days. But, after first 35 days, 60 extra men are hired to complete the job on time. If these 60 men were not hired, the job would have taken how many days totally?
- a) 45 days b) 42 days c) 48 days d) 52 days e) 56 days