



PERSONALITY DEVELOPMENT ASSOCIATION

MADRAS INSTITUTE OF TECHNOLOGY

ANNA UNIVERSITY – CHENNAI

“DISCOVER THYSELF”

Aptitude Test No.:01

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- Two, trains, one from Howrah to Patna and the other from Patna to Howrah, start simultaneously. After they meet, the trains reach their destinations after 9 hours and 16 hours respectively. The ratio of their speeds is:
a)2:3 b)4:3 c)6:7 d)9:16
- Two trains are running at 40 km/hr and 20 km/hr respectively in the same direction. Fast train completely passes a man sitting in the slower train in 5 seconds. What is the length of the fast train?
a)23 m b)209/9 m c)250/9 m d)29 m
- A train overtakes two persons who are walking in the same direction in which the train is going, at the rate of 2 kmph and 4 kmph and passes them completely in 9 and 10 seconds respectively. The length of the train is:
a)45 m b)50 m c)54 m d)72 m
- A train overtakes two persons walking along a railway track. The first one walks at 4.5 km/hr. The other one walks at 5.4 km/hr. The train needs 8.4 and 8.5 seconds respectively to overtake them. What is the speed of the train if both the persons are walking in the same direction as the train?
a)66 km/hr b)72 km/hr c)78 km/hr d)81 km/hr
- A train travelling at 48 kmph completely crosses another train having half its length and travelling in opposite direction at 42 kmph, in 12 seconds. It also passes a railway platform in 45 seconds. The length of the platform is
a)400 m b)450 m c)560 m d)600 m
- Two stations A and B are 110 km apart on a straight line. One train starts from A at 7 a.m. and travels towards B at 20 kmph. Another train starts from B at 8 a.m. and travels towards A at a speed of 25 kmph. At what time will they meet?
a)9 am b)10 am c)10.30 am d)11 am
- A train 108 m long moving at a speed of 50 km/hr crosses a train 112 m long coming from opposite direction in 6 seconds. The speed of the second train is:
a)48 km/hr b)54 km/hr c)66 km/hr d)82 km/hr
- Two trains of equal lengths take 10 seconds and 15 seconds respectively to cross a telegraph post. If the length of each train be 120 metres, in what time (in seconds) will they cross each other travelling in opposite direction?
a)10 b)12 c)15 d)20

9. Two trains are running in opposite directions with the same speed. If the length of each train is 120 metres and they cross each other in 12 seconds, then the speed of each train (in km/hr) is:

- a)10 b)18 c)36 d)72

10. A train running at the speed of 60 km/hr crosses a pole in 9 seconds. What is the length of the train?

- a)120 m b)180 m c)324 m d)150 m

11. A train 125 m long passes a man, running at 5 km/hr in the same direction in which the train is going, in 10 seconds. The speed of the train is:

- a)45 km/hr b)50 km/hr c)54 km/hr d)55 km/hr

12. The length of the bridge, which a train 130 m long travelling at 45 km/hr can cross in 30 seconds, is:

- a)200 m b)225 m c)245 m d)250 m

13. A train passes a station platform in 36 seconds and a man standing on the platform in 20 seconds. If the speed of the train is 54 km/hr, what is the length of the train?

- a)120 m b)240 m c)300 m d)360 m

14. A 270 m long train running at the speed of 120 km/hr crosses another train running in the opposite direction at the speed of 80 km/hr in 9 seconds. What is the length of other train?

- a)230 m b)240 m c)260 m d)320 m e)none of these

15. Two trains each 100 m long, moving in opposite directions, cross each other in 8 seconds. If one is moving twice as fast the other, then the speed of the faster train is:

- a)30 km/hr b)45 km/hr c)60 km/hr d)75 km/hr

16. A train 110 m long is running with a speed of 60 km/hr. In what time will it pass a man who is running at 6 km/hr in the direction opposite to that in which train is going?

- a)5 sec b)6 sec c)7 sec d)10 sec

17. A train 800 m long is running at a speed of 78 km/hr. If it crosses a tunnel in 1 minute, then the length of the tunnel (in meters) is:

- a)130 b)360 c)500 d)540

18. A train travelling at a speed of 75 mph enters a tunnel 3.5 miles long. The train is 0.25 miles long. How long does it take for the train to pass through the tunnel from the moment the front enters to moment the rear emerges?

- a)2.5 min b)3 min c)3.2 min d)3.5 min

19. A 300 m long train crosses a platform in 39 seconds while it crosses a signal point in 18 seconds. What is the length of the platform?

- a)320 m b)350 m c)650 m d)data inadequate

20. A train moves past a telegraph post and a bridge 264 m long in 8 seconds and 20 seconds respectively. What is the speed of the train?

- a)69.5 km/hr b)70 km/hr c)79 km/hr d)79.2 km/hr