TRAINS

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

   (1) 120 m   (2) 240 m

   (3) 340 m   (4) 300 m

   (5) None of these

2. Two trains 100 m and 120 m long are running in the same direction with speeds of 72 km/hours and 54 km/hours. In how much time will the first train cross the second one?

   (1) 40 second   (2) 44 second

   (3) 46 second   (4) 50 second

   (5) None of these

3. Two trains running in opposite directions cross a man standing on the platform in 27 second and 17 second respectively and they cross each other in 23 seconds. The ratio of their speeds is

   (1) 1 : 3   (2) 3 : 2

   (3) 4 : 3   (4) 5 : 6

   (5) None of these

4. A train 240 m long passed a pole in 24 seconds. How long will it take to pass a platform 650 m long?

   (1) 65 second   (2) 89 second

   (3) 100 second   (4) 150 second

   (5) None of these

5. How long does a train 110 m long running at the speed of 72 km/hour takes in crossing a bridge 132 m in length?

   (1) 9.8 second   (2) 12.1 second

   (3) 12.42 second   (4) 14.3 second

   (5) None of these

6. A 260 m long train crosses a 120 m long wall in 19 seconds. What is the speed of the train?

   (1) 27 km/hour   (2) 49 km/hour

   (3) 72 km/hour   (4) 70 km/hour

   (5) None of these

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

   (1) 240 m   (2) 320 m

   (3) 260 m   (4) 230 m

   (5) None of these

8. A train covers a distance of 12 km in 10 minutes. If it takes 6 seconds to pass a telegraph post, then the length of the train is

   (1) 90 m   (2) 100 m

   (3) 120 m   (4) 140 m

   (5) None of these

9. How many seconds will a 500 m long train take to cross a man walking with a speed of 3 km/hour in the direction of the moving train, if the speed of the train is 63 km/hour?

   (1) 25 sec   (2) 30 sec

   (3) 40 sec   (4) 45 sec

   (5) None of these

10. Two good train each 500 m long are running in opposite direction on parallel tracks. Their speeds are 45 km/hour and 30 km/hour respectively. Find the time taken by the slower train to pass the driver of the faster one

   (1) 12 second   (2) 24 second

   (3) 48 second   (4) 60 second

   (5) None of these

11. Two trains one from Howrah to Patna and 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

(1) 2 : 3   (2) 4 : 3

(3) 6 : 7   (4) 9 : 16

(5) None of these

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

(1) 5 second   (2) 6 second

(3) 7 second   (4) 10 second

(5) None of these

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

(1) 320 m

(2) 650 m

(3) 350 m

(4) data inadequate

(5) None of these

14. Two trains are moving in opposite direction at the rate of 60 km/hr and 90 km/hr. Their lengths are 1.10 km and 0.9 km respectively. The time taken by the slower train to cross the faster train in seconds is

(1) 36   (2) 45

(3) 48   (4) 49

(5) None of these

15. A train when moves at an average speed of 40 kmph, reaches its destination on time. When its average speed becomes 35 kmph, then it reaches its destination 15 minutes late. Find the length of journey?

(1) 30 km   (2) 40 km

(3) 70 km   (4) 80 km

(5) None of these

16. Two trains 140 m and 160 m long run at the speed of 60 km/hour and 40 km/hour respectively in opposite direction on parallel tracks. The time (in seconds) which they take to cross each other is

(1) 9 sec   (2) 9.6 sec

(3) 10 sec   (4) 10.8 sec

(5) None of these

17. Train A travelling at 60 km/hr leaves Mumbai for Delhi at 6 p.m. Train B travelling at 90 km/hr also leaves Mumbai for Delhi at 9 p.m. Train C leaves Delhi for Mumbai at 9 p.m. If all the three trains meet at the same time between Mumbai and Delhi, then what is the speed of train C, if the distance between Delhi and Mumbai is 1260 km?

(1) 60 km/hr   (2) 90 km/hr

(3) 120 km/hr   (4) 135 km/hr

(5) None of these

18. Two trains A and B start running together from the same point in the same direction, at the speed of 60 kmph and 72 kmph respectively. If the length of both the trains is 240 metres, how long will it take for train B to cross train A?

(1) 2 min 12 sec

(2) 1 min 24 sec

(3) 1 min 12 sec

(4) 2 min 24 sec

(5) None of these

19. A 250 metre long train crosses a platform in 10 seconds. What is the speed of the train?

(1) 25 m/sec

(2) 20 m/sec

(3) 22 m/sec

(4) cannot be determined

(5) None of these

20. A train running at the speed of 20 m/second crosses a pole in 24 seconds less than the time it

requires to cross a platform thrice its length at the same speed. What is the length of the train?

(1) 270 metres

(2) 340 metres

(3) 180 metres

(4) can't be determined

(5) None of these

21. A 180 metre long is running at a speed of 90 km/hr. How many seconds will it take to cross a 200 m long train running in the opposite direction at a speed of 60 km/hr?

(1) 7 - sec   (2) 60 sec

(3) 12 sec   (4) 20 sec

(5) None of these

22. A man sitting in a train travelling at the rate of 50 km/hr observes that it takes 9 sec. for a goods train travelling in the opposite direction to pass him. If the goods train is 187.5 m long, find its speed.

(1) 40 km/hr   (2) 25 km/hr

(3) 35 km/hr   (4) 36 km/hr

(5) None of these

23. Bombay Express left Delhi for Bombay at 14.30 hrs, travelling at a speed of 60 kmph and rajdhani Express left Delhi for Bomaby on the same day at 16.30 hrs, travelling at a speed of 80 kmph. How far away from Delhi will the two trains meet?

(1) 120 km   (2) 360 km

(3) 480 km   (4) 500 km

(5) None of these

24. A train crosses a platform in 60 seconds at a speed of 45 km/hr. How much time will it take to cross an electric pole if the length of the platform is 100 metres?

(1) 8 seconds   (2) 1 minute

(3) 52 seconds (4)   1 hour

(5) None of these

25. A train 300 metres long running at a speed of 18 km/hr. How many seconds will it take to cross a 200 m long train running in the opposite direction at a speed of 12 km/hr?

(1) 60 sec   (2) $7\dfrac{1}{5}$ sec

(3) 12 sec   (4) 20 sec

(5) None of these

26. A train running at 35 km per hour takes 18 seconds to pass a platform. Next, it takes 12 seconds to pass a man walking at the rate of 5 km/hr in the same direction. Find the length of the train and that of the platform.

(1) 50m, 75m   (2) 100m, 75m

(3) 75m, 25m   (4) 60m, 15m

(5) None of these

27. Two trains of the same length but with different speeds pass a static pole in 4 seconds and 5 seconds respectively. In what time will they cross each other when they are moving in the same direction?

(1) 20 seconds (2)   40 seconds

(3) 25 seconds (4)   30 seconds

(5) None of these

28. Two trains of the same length but with different speeds pass a static pole in 5 seconds and 6 seconds respectively. In what time will they cross each other when they are moving in the same direction.

(1) 1 hr   (2) 50 sec

(3) 40 sec   (4) 60 min

(5) None of these

29. Two trains, 130 and 110 metres long, while going in the same direction, the faster train takes one minute to pass the other completely. If they are moving in opposite direction, they pass each other completely in 3 seconds. Find the speed of trains.

(1) 24m/sec, 19m/sec

(2) 42m/sec, 38m/sec

(3) 40m/sec, 36m/sec

(4) Data inadequate

(5) None of these

30. Two trains A and B start from Lucknow and Delhi towards Delhi and Lucknow respectively. After passing each other they take 4 hours and 9 hours to reach Delhi and Lucknow respectively. If the train from Lucknow is moving at 60 km/hr then find the speed of the other train.

(1) 40km/hr
(2) 30 km/hr

(3) 35 km/hr
(4) 50 km/hr

(5) None of these

31. Two trains are moving in the opposite directions on parallel tracks at the speeds of 64 km/hr and 96 km/hr respectively. The first train passes a telegraph post in 5 seconds whereas the second train passes the post in 6 seconds. Find the time taken by the trains to cross each other completely.

(1) $\dfrac{18}{5}$ sec
(2) $\dfrac{28}{5}$ sec

(3) 6 sec
(4) 5 sec

(5) None of these

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

(1) 200 m
(2) 225 m

(3) 245 m
(4) 250 m

(5) None of these

33. A train 100 m long is running at the speed of 30 km/hour. The time time taken by it to pass a man standing near the railway line is

(1) 7 second
(2) 8 second

(3) 10 second
(4) 12 second

(5) None of these

34. A train 360 m long is running at a speed of 45 km/hour. In what time will it pass a bridge of 140 m long?

(1) 40 second
(2) 42 second

(3) 45 second
(4) 48 seconds

(5) None of these

35. 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

(1) 30 km/hour
(2) 45 km/hour

(3) 60 km/hour
(4) 75 km/hour

(5) None of these

36. Two trains are running at 40 km/hour and 20 km/hour respectively in the same direction. Faster train completely passes a man sitting in the slower train in 5 seconds. What is the length of the faster train?

(l) 23 m
(2) $23\dfrac{2}{9}$ m

(3) 27 m
(4) $27\dfrac{7}{9}$ m

(5) None of these

37. A train running at speed of 120 km/per hour crosses a signal post in 15 seconds. What is the length of the train in metres?

(1) 300

(2) 200

(3) 500

(4) can't be determined

(5) None of these

38. A train covers a distance of 180 km in 4 hours. Another train covers the same distance in one hour less. What is the difference in the distances covered by these two trains in one hour?

(l) 45km
(2) 40 km

(3) 15 km
(4) 9 km

(5) None of these

39. A train is moving at a speed of 132 km/hour. If the length of the train is 110 m, how long will it take to cross a railway platform 165 m long?

(1) $6\dfrac{1}{2}$ second
(2) 7 second

(3) $7\dfrac{1}{2}$ second   (4) 8 second

(5) None of these

40. A goods train runs at a speed of 72 kmph and crosses a 250 m long platform in 26 seconds. What is the length of the goods train?

(1) 230 m   (2) 240 m

(3) 260 m   (4) 270 m

(5) None of these

41. A train 280 m long, running with a speed of a 63 km/hour will pass a tree in

(1) 15 second   (2) 16 second

(3) 18 second   (4) 20 second

(5) None of these

42. In what time will a train 100 m long cross an electric pole, if its speed be 144 km/hour?

(1) 2.5 seconds   (2) 4.25 seconds

(3) 5 seconds   (4) 12.5 seconds

(5) None of these

43. A train speeds past a pole in 15 seconds and a platform 100 m long in 25 seconds. Its length is

(1) 50 m

(2) 150 m

(3) 200 m

(4) data inadequate

(5) None of these

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

(1) 170 m

(2) 180 m

(3) 225 m

(4) cannot be determined

(5) None of these

45. A train 800 m long is running at a speed of 78 km/hour. If it crosses a tunnel in 1 minute then the length of the tunnel (in m) is

(1) 130   (2) 360

(3) 500   (4) 540

(5) None of these

46. A train 125 m long passes a man, running at 5 kmph in the same direction in which the train is going in 10 seconds. The speed of the train is

(1) 45 km/hour   (2) 50 km/hour

(3) 54 km/hour   (4) 55 km/hour

(5) None of these

47. An express train travelled at an average speed of 100 km/hour, stopping for 3 minutes after every 75 km. How long did it take to reach its destination 600 km from the starting point?

(1) 6 hours 21 minute

(2) 6 hours 24 minute

(3) 6 hours 27 minute

(4) 6 hours 30 minute

(5) None of these

48. A jogger running at 9 kmph along side a railway track is 240 m ahead of the engine of a 120 m long train running at 45 kmph in the same direction. In how much time will the train pass the jogger?

(1) 3.6 second   (2) 18 second

(3) 36 second   (4) 72 second

(5) None of these

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

(1) 10   (2) 18

(3) 36   (4) 72

(5) None of these

50. Two trains of equal length are running on parallel lines in the same direction at 46 km/hour and 36 km/hour. The faster train passes the slower train

in 36 seconds. The length of each train is

(1) 50 m   (2) 72 m

(3) 80 m   (4) 82 km

(5) None of these

51. Two trains 140 m and 160 m long run at the speed of 60 km/hour and 40 km/hour respectively in opposite directions on parallel tracks. The time (in seconds) which they take to cross each other is

(1) 9   (2) 9.6

(3) 10   (4) 10.8

(5) None of these

52. 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?

(1) 69.5 km/hour   (2) 70 km/hour

(3) 79 km/hour   (4) 79.2 km/hour

(5) None of these

53. Two trains of equal length take 10 seconds and 15 seconds respectively to cross a telegraph post. If the length of each train be 120 m, in what time (in seconds) will they cross each other travelling in opposite direction?

(1) 8.5   (2) 9

(3) 10   (4) 12

(5) None of these

54. A train 108 m long moving at a speed of 50 km/hr crosses a train 112 m long coming from the opposite direction in 6 sec. The speed of the second train is

(1) 48 km/hr   (2) 54 km/hr

(3) 66 km/hr   (4) 82 km/hr

(5) None of these

55. A train covers 180 km distance in 4 hours. Another train covers the same distance in 1 hour less. What is the difference in the distances covered by these trains in one hour?

(1) 45 km   (2) 9 km

(3) 40 km   (4) 10 km

(5) None of these

56. A train with 90 km/hr crosses a bridge in 36 seconds. Another train 100 metres shorter crosses the same bridge at 45 km/hr. What is the time taken by the second train to cross the bridge?

(1) 61 seconds(2)   63 seconds

(3) 62 seconds(4)   64   seconds

(5) None of these

ANSWERS

1.	2	11.	2	21.	4	31.	1	41.	2	51.	4
2.	2	12.	2	22.	2	32.	3	42.	1	52.	4
3.	2	13.	3	23.	3	33.	4	43.	1	53.	4
4.	2	14.	3	24.	3	34.	1	44.	5	54.	3
5.	2	15.	3	25.	1	35.	3	45.	3	55.	4
6.	3	16.	4	26.	2	36.	4	46.	2	56.	4
7.	4	17.	3	27.	2	37.	3	47.	1		
8.	3	18.	4	28.	3	38.	3	48.	3		
9.	2	19.	5	29.	2	39.	3	49.	3		
10.	3	20.	5	30.	1	40.	4	50.	1		