1. A train crosses a 300 m long platform in 38sec while it crosses a pole in 18 sec. Then find the speed of the train in km/hr.
   (A) 56 kmph
   (B) 45 kmph
   (C) 64 kmph
   (D) 54 kmph

2. A 180 m long train crosses another 270 m long train in opposite direction in 10.8 sec. If the speed of first train is 60 km/hr. then find the speed of second train.
   (A) 80 kmph
   (B) 90 kmph
   (C) 72 kmph
   (D) 76 kmph

3. A train running at 7/11 of its normal speed reaches to a place in 22 hrs. How much time could be saved if the train had run at its normal speed?
   (A) 6 hours
   (B) 7 hours
   (C) 8 hours
   (D) 9 hours

4. Two trains of same lenght but different speed cross a pole in 4 seconds and 5 seconds. If they are moving in the same direction then in how much time they will cross each other completely?
   (A) 40 seconds
   (B) 30 seconds
   (C) 45 seconds
   (D) 36 seconds

5. Two trains of length 200 m and 250 m with different speed cross a pole in 10 seconds and 15 seconds. It they are moving in opposite direction, in how much time they will cross each other completely?
   (A) $12\frac{4}{11}$ seconds
   (B) $12\frac{3}{11}$ seconds
   (C) $12\frac{5}{11}$ seconds
   (D) $12\frac{7}{11}$ seconds

6. Two trains of length 200 m and 250 m with different speed cross a pole in 8 seconds and 14 seconds. In how much time they will cross each other?
   (A) $\frac{11}{2}$
   (B) $\frac{23}{2}$
   (C) $\frac{21}{2}$
   (D) None of these

7. Two trains of length 100m and 150 m cross a pole in 1 min. and 3 min. If they are moving in opposite direction, in how much time they will cross each other completely?
   (A) 100 seconds
   (B) 150 seconds
   (C) 120 seconds
   (D) 180 seconds

8. A train starts from Delhi to Bhopal at 7:00 am with the speed of 32 km/hr. At the same time another train starts from Bhopal to Delhi at the speed of 46 km/hr. At what time both train will meet and how far from Delhi, if the distance between Delhi and Bhopal is 936 km?
   (A) 7 pm and 384 km
   (B) 9 pm and 384 km
   (C) 9 pm and 324 km
   (D) None of these

9. A train starts from Delhi to Chandigarh at 9:00 am with the speed of 40 km/hr. After 5 hrs another train starts from Delhi to Chandigarh at the speed of 56km/hr. At what time both trains will meet if distance between Delhi and Chandigarh is 392 km?
   (A) 7 pm
   (B) 4 pm
   (C) 5 pm
   (D) None of these

10. A train starts from Delhi to Agra at 7:00 am with the speed of 40 km/hr. Another train starts from Agra to Delhi at 7:30 am with the speed of 60 km/hr. At what time both trains will meet if the distance between Agra and Delhi is 310 km?
    (A) 11:24 am
    (B) 10:48 am
    (C) 10:24 am
    (D) None of these

11. A train starts from Delhi at 4 pm and reaches Meerut at 6 pm. Another train starts from Meerut at 4 pm and reaches Delhi at 7 pm, then at what time both trains will meet?
    (A) 5:36 pm
    (B) 5:12 pm
    (C) 6:12 pm
    (D) None of these

12. The speed of two trains are in the ratio of 7: 9. They are moving in the opposite direction on parallel track. The first train crosses a telegraph pole in 4 seconds whereas the second train crosses the pole in 6 seconds. Find the time taken by trains to cross each other.

(A) 36 seconds (B) 43 seconds

(C) 39 seconds (D) 41 seconds

13. Two trains start at same time from Hyderabad and Delhi and proceeds towards each other at the speed 80km/hr and 90km/hr. When they meet it is found that one train has travelled 180 km more than the other, then find the distance between Delhi and Hyderabad.

(A) 2096 km (B) 3036 km

(C) 2586 km (D) None of these

14. Two trains of length 100 m and 80 m runs on a parallel track. When they are running in the same direction, faster train passes slower one in 18 sec. and when they are running in the opposite direction they pass each other in 9 sec. then find the speed of both the trains.

(A) 15 m/s and 5 m/s
(B) 20 m/s and 5 m/s
(C) 15 m/s and 10 m/s
(D) None of these

15. The length of a train and that of a platform are equal. If with a speed of 90 km/hr the train crosses the platform in one minute. Then the length of the train (in metres) is:

(A) 720 m (B) 700 m

(C) 750 m (D) 780 m

16. A train passes two bridges of lengths 800 m and 400 m in 100 seconds and 60 seconds respectively. The length of the train is:

(A) 180 m
(B) 200 m
(C) 120 m
(D) 250 m

17. The ratio of length of two trains is 5:3 and the ratio of their speeds is 6:5 . The ratio of time taken by them to cross a pole is:

(A) 25 : 18

(B) 23 : 18

(C) 18 : 25

(D) 25 : 17

18. If a man covers a distance between his house and office on scooter having an average speed of 30 km/hr. he gets late by 10 min. However if he covers with a speed of 40 km/hr. he reaches his office 5 min earlier. What is the distance between his house and office?

(A) 36 km (B) 30 km

(C) 40 km (D) 42 km

19. A boy walks at a speed of 10 km/hr. and reaches his school 15 min late. If he increases his speed by 2 km/hr. he gets late by 5 minutes. Find the distance between his school and house.

(A) 15 km (B) 12 km

(C) 10 km (D) None of these

20. A boy goes to his school at a speed of 30 km/hr and return to the place at a speed of 20 km/hr and he takes 5 hrs in all. What is the distance between his school and village?

(A) 45 km (B) 55 km

(C) 50 km (D) 60 km

21. Two traveler cover the same distance at the rate of 10 km/hr and 12 km/hr. Find the distance travelled when one takes 16 min longer than the other?

(A) 9 km (B) 12 km

(C) 8 km (D) 10 km

22. A monkey tries to ascend a pole 14 m high. He ascends 2 metre in 1st minute and slips down 1 metre in next minute. If he continues to ascend in this way, how long does he take to reach the top?

(A) 20 minutes (B) 24 minutes
(C) 25 minutes (D) 26 minutes

23. A boy kept a bomb somewhere and run with the speed of 30 m/sec. After 55 seconds bomb blasted. After how much time boy will hear the explosion sound, if speed of sound is 330 m/sec.

    (A) 6.5 sec   (B) 7.5 sec

    (C) 5.5 sec   (D) None of these

24. A gun is fired from behind the train. The train driver hears sound after 1.5 min. in comparison to guard. If speed of train is 1000 m/min, speed of sound is 1100 m/min. Find the length of train.

    (A) 130 m   (B) 150 m

    (C) 140 m   (D) None of these

25. If a man walks 20 km/hr faster he would have saved 1 hr in the distance of 600 km. Find his usual speed?

    (A) 120 km/hr   (B) 100 km/hr

    (C) 90 km/hr   (D) 150 km/hr

26. Without any stoppage a person travels a certain distance at an average speed of 42 km/hr and with stoppage he travels the same distance with 28 km/hr average speed. Find how many minutes per hour does he stop.

    (A) 18 minutes   (B) 15 minutes

    (C) 25 minutes   (D) 20 minutes

27. Excluding stoppage the speed of bus is 54 km/hr including stoppage it is 45km/hr. How many minutes does the bus stops per hour.

    (A) 12 minutes   (B) 15 minutes

    (C) 10 minutes   (D) 18 minutes

28. A boat takes half time in moving a certain distance downstream than upstream. Find the ratio of speed of boat in still water and that of the current.

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

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

29. A man rows 36 km upstream and find the 48 km downstream and takes 6 hrs in each

speed of the current?

(1) 1.5 km/hr   (2) 1 km/hr

(3) 2 km/hr   (4) 2.5 km/hr

30. A boat moved 1 km downstream in 5 minutes and 1 km upstream in 12 minutes. Find the speed of the current.

    (1) 1.5 km/hr   (2) 1 km/hr

    (3) 2 km/hr   (4) 3.5 km/hr

31. A motor boat takes 12 hrs. to go downstream and it takes 24 hrs to return to the same point. What is the time taken by boat to cover the same distance in still water?

    (1) 16 hr   (2) 15 hr

    (3) 14 hr   (4) 17 hr

32. A boat moves downstream at the rate of 1 km 7.5 min and upstream at the rate of 5 km/hr. What is the speed of boat in still water?

    (1) 6.5 km/hr   (2) 7.5 km/hr

    (3) 8 km/hr   (4) 8.5 km/hr

33. The speed of a boat in upstream is $2/3^{rd}$ of downstream. Find the ratio of speed of boat in still water to the average speed of boat in downstream and upstream.

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

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

34. A man can row 40 km upstream and 55 km downstream in 13 hr and 30 km upstream and 44 km downstream in 10 hrs. What is the speed of man in still water?

    (1) 6.5 km/hr   (2) 7.5 km/hr

    (3) 8 km/hr   (4) 8.5 km/hr

35. A person moves 48 km upstream and 72 km downstream in 12 hours and 72 km upstream and 48 km downstream in 13 hours. What is the speed of the person in still water?

    (1) 1.5 km/hr   (2) 1 km/hr

    (3) 2 km/hr   (4) 3.5 km/hr