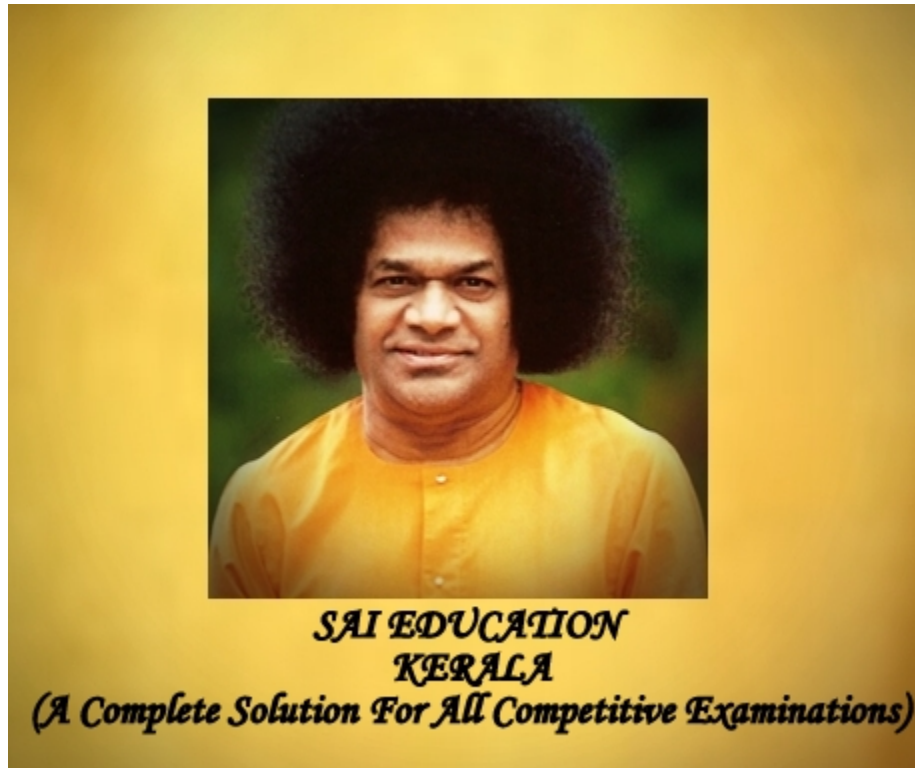


Online coaching day 15 (23-03-2019) Saturday

University assistant special maths - time and distance



Name of the candidate *

Mentor 5

Please watch the online videos: 

<https://youtu.be/Ro8456-ADbE>
<https://youtu.be/l3EjABJiDos>
<https://youtu.be/5GrXzQsDRc0>

1. An athlete runs 200m in 24 seconds. Find his speed in km/hr

1 point

30

35

40

50

2. A person walks at 3km/ hr. In how much time in minute will he cover 900m?

1 point

12

15

18

24

3. A car covers a distance at the speed of 30kmph and returns at the speed of 60kmph. Find the average speed of the car

1 point

10 kmp

20 kmph

40 kmph

60 kmph

4. A boy goes to school at a speed of 3 kmph and returns to the house at a speed of 2 kmph. If he takes 5 hours for all, find the distance between house and school

1 point

3 km

6 km

8 km

9 km

5. Walking at a $\frac{4}{5}$ th of his usual speed a person is 2 hours late. How much time he usually takes to travel the same distance

1 point

8 hours

4 hours

6 hours

7 hours

6. A train of 100m is crossing one bridge of 200m at a speed of 72kmph. what time taken by the train to cross the bridge

1 point

10 s

12 s

15 s

20 s

7. A train of 700m length is running at a speed of 54 kmph crosses a tunnel in one minute. Then what is the length of the tunnel 1 point

900 m

150 m

200 m

700 m

8. A train 280 m long crosses the bridge 170m in 22.5 second. Find the speed in kmph? 1 point

20 kmph

75 kmph

54 kmph

72 kmph

9. The speed of 3 cars are in the ratio 4:3:2. What is the ratio of the time taken by the cars to cover the same distance? 1 point

1:2:3

2:4:6

3:6:9

3:4:6

10. If maya goes to office at a speed of 40 kmph, she reaches 5 minutes late. If she travels at the speed of 60 kmph, she is 10 minutes early. Then what is the distance between office and home

1 point

- 120 km
- 100 km
- 50 km
- 30 km

11. Find the time taken by a 180m long train running at 54 kmph to cross a man standing on a platform

1 point

- 12 s
- 3 s
- 10 s
- 6 s

12. A and B are 2 cities. A man travels from A to B at a speed of 10 kmph and returns back at the speed of 30 kmph. Find his average speed of his whole journey

1 point

- 30 kmph
- 15 kmph
- 60 kmph
- 80 kmph

13. A train 520m long is running with a speed of 90 kmph. In what time will it cross a bridge 130m long.

1 point

36 s

46 s

34 s

26 s

14. Two trains of lengths 210m and 130m respectively are running in opposite directions on parallel tracks. If their speeds are 32 and 36kmph respectively, in what time will they cross each other

1 point

16 s

18 s

20.5 s

24 s

15. Sachin runs at $\frac{5}{4}$ th of his usual speed and reaches the playground 5 minutes earlier. What is the usual time?

1 point

50

15

25

35

16. A teacher driving her vehicle at 24kmph, reaches her school 5 minutes late. If he had driven the vehicle 25% faster on an average she would have reached 4 minutes earlier. How far is the school?

1 point

- 18 km
- 24 km
- 32 km
- 16 km

17. A man travelling at a speed of 20 kmph reaches his office 10 minutes late. Next day he travels at a speed of 30 kmph and he reached his office 10 minutes earlier. Then the distance between the office and home is

1 point

- 40 km
- 20 km
- 10 km
- 80 km

18. 2 trains 126m and 114m long are running in opposite direction, with the speed of 30kmph and 42kmph. At which moment they will cross each other.

1 point

- 10 s
- 20 s
- 12 s
- 15 s

19. A train of length 100m runs at a speed of 120kmph from north to south. Another train of length 150m travels with a speed of 80kmph from south to north. What is the time required to cross each other. 1 point

- 5 s
- 4 s
- 4.5 s
- 3.5 s

20. A train of length 150m took 8 seconds to cross a bridge of length 250m. Time taken by the train to cross a telephone post is 1 point

- 50 s
- 3 s
- 13 s
- 30 s

21. A car is moving with a speed of 72kmph. How many meters will it cover in 15 minutes 1 point

- 18000m
- 1800m
- 8100m
- 81000m

22. A car running at 70kmph takes one hour to cover a distance. If the speed is reduced by 10kmph. Then in how much time it will cover the distance.

1 point

- 55 minutes
- 60 minutes
- 65 minutes
- 70 minutes

23. The ratio of speeds of a car and a train is 15: 22. If the speed of the train is 35kmph more than the speed of the car. Then find the distance travel by car in 5 hours

1 point

- 475 km
- 375 km
- 457 km
- 357 km

24. The speed of a train 60kmph. The driver exceeds the speed of the train by 12kmph. The percentage gain in the speed of train?

1 point

- 10%
- 20%
- 15%
- 25%

25. A and B are in 390 km apart. A train is started from A at 10AM and travels towards B at 65kmph. And another train from B starts at 11AM and travels towards A, at a speed of 35kmph. At what time will they meet?

1 point

- 3.25 pm
- 2.25 pm
- 3.25 am
- 2.25 am

Thank you 

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