

# 108 DAYS ONLINE COACHING DAY(13) - 20/02/2020 THURSDAY

TIME,DISTANCE AND SPEED



Name of the candidate \*

M3

Place of the candidate \*

Thiruvananthapuram

WHATS APP NUMBER (JOINED IN SAI EDUCATION ONLINE) \*

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Please watch the following videos and answer the questions that follow

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

1. Vijay crosses a street 600m long in 5 min .His speed is \*

1 point

- 2.7km/hr
- 7.2km/hr
- 3.6km/hr
- 36.3km/hr

2.Arjun covers 10.2km in 3 hrs . The distance covered by him in 5 hrs is ----- \*

1 point

- 52 km
- 51 km
- 17km
- 19km

3. A ship sails to a certain city at 20knots/hr and sails back to the same point at the rate of 30knots/hr.What is the average speed for the whole journey. \*

1 point

- 12knots/hr
- 21knots/hr
- 24knots/hr
- 42knots/hr

4. A boy goes to school at the speed of 3 km/hr and returns at the speed of 2 km/hr. If he takes 5 hours in all, find the distance in km between the village and school. \* 1 point

- 6km
- 6m
- 66km
- 66m

5. A and B are two towns. A car goes from A to B at a speed of 64 km/hr and returns to A at a slower speed. If its average speed for the whole journey is 56 km/hr, it returned with what speed? \* 1 point

- 497 km/hr
- 49.7 km/hr
- 4.97 km/hr
- 0.497 km/hr

6. A bicycle rider covers his onward journey from A to B at 10 km/hr and during the return journey from B to A he covers the same distance at 8 km/hr. If he finishes the onward and return journey in  $4\frac{1}{2}$  hours, then the total distance covered by him during the entire journey. \* 1 point

- 4km
- 44km
- 40m
- 40km

7. Once in a tour , a man travels at a rate of 64km an hour for the first 160km ,then travels the next 160km at the rate of 80km an hour.The average speed in km/hr for the first 320km of the tour is ----- \*

1 point

- 71.11km/hr
- 7.111km/hr
- 711.1km/hr
- 7.111m/sec

8. Prathap went from Delhi to Shimla via Chandigarh by car .The distance from Delhi to Chandigarh is  $\frac{3}{4}$  times the distance from Chandigarh to Shimla.The average speed from Delhi to Chandigarh is  $\frac{3}{2}$  times the average speed from Chandigarh to Shimla.If the average speed for the entire journey was 49km/hr , then what was the average speed from Chandigarh to Shimla. \*

1 point

- 21km/hr
- 42km/hr
- 21m/sec
- 42m/sec

9. A car during its journey travels 40min at a speed of 30km/hr another 50 minutes at a speed of 60km/hr and 1 hour at a speed of 30km/hr. Find the average speed of the car. \*

- 4km/hr
- 4m/sec
- 40km/hr
- 40m/sec

10. A man walks 6 km at a speed of  $1\frac{1}{2}$  km/hr and runs 8 km at a speed of 2km/hr and goes by bus another 32km. Speed of the bus is 8 km/hr. If the speed of the bus is considered as the speed of the man, then find his average speed. \*

- $\frac{23}{6}$  km/hr
- $\frac{2}{36}$  km/hr
- 236km/hr
- $\frac{2}{36}$  m/s

11. Athira starts his journey from Delhi to Bhopal and simultaneously Jyothi starts from Bhopal to Delhi. After crossing each other they finish their remaining journey in  $5\frac{4}{9}$  hrs and 9 hours respectively. What is Jyothi's speed if Athira's speed is 36km/hr. \*

- 4 km/hr
- 2.8m/sec
- 2.8km/hr
- 28km/hr

12. A man travels 360km in 4 hrs partly by air and partly by train.If he had travelled all the way by air ,he would have saved  $\frac{4}{5}$  of the time he was in train and would have arrived his destination 2 hours early.Find the distance he travelled by air and train. \*

1 point

- 270km,90km
- 90km,270km
- 27km,90km
- 27km,9 km

13. Two boys begin together writing out a booklet containing 8190 lines .The first boy starts with a first line writing at the rate of 200 lines an hour and the second boy starts with the last line then writes 8189th line and so on, proceeding backward at the rate of 150line an hour. At what line will they meet? \*

1 point

- 2340
- 1220
- 4680
- 3240

14.A,B & C start together from the same place to walk around a circular path of length 12 km. A walk at the rate of 4km/hr.B at the rate of 3 km/hr and C at the rate of  $\frac{3}{2}$  km/hr.They will meet together at the starting place after how much time. \*

1 point

- 24sec
- 2.4 hrs
- 2.4sec
- 24hrs

15. A starts from a place P to go to a place Q. At the same time B starts from Q for P. If after meeting each other, A and B took 4 and 9 hours more respectively to reach their destination, the ratio of their speed is \*

- 3:2
- 2:3
- 9:2
- 2:9

16. By walking  $\frac{4}{5}$ th of the usual speed, Ravi is 6 minutes late to office. Find his usual time to cover the distance. \*

- 30 min
- 43 min
- 24 min
- 42 min

17. By walking  $\frac{3}{4}$ th of his usual speed a man reaches office 20 minutes later than usual. His usual time is ----- \*

- 20 min
- 30 min
- 60 min
- 90 min

18. Two bicyclists do the same journey by travelling respectively at the rates of 9 km/hr and 10 km/hr. Find the length of the journey when one takes 32 minutes longer than the other. \*

- 84 km
- 32 km
- 23 km
- 48 km

19. A thief runs at a speed of 10 m/s. A policeman runs behind him at a speed of 12.5 m/s, but the policeman had started running after 10 sec. Find after how many metres will the policeman catch the thief. \*

- 100 m
- 300 m
- 400 m
- 500 m

20. Two people cover the same distance at a speed of 25 km/hr and 30 km/hr. Find the distance travelled if one person takes 25 minutes more than the other. \*

- $\frac{1}{12}$  m
- $\frac{1}{12}$  km
- $\frac{125}{2}$  m
- $\frac{125}{2}$  km



21. A person covers a certain distance at a speed of 60 km/hr without stoppage and with stoppages. He travels the same distance at a speed of 40 km/hr. How many minutes per hour does he stop? \*

1 point

- 20 min/hr
- 30 min/hr
- 40 min/hr
- 50 min/hr

22. A bus running at a speed of 30 km/hr leaves Trivandrum at 10 am and another bus running at a speed of 40 km/hr leaves the same place at 3 pm in the same direction. How many km from Trivandrum will they be together. \*

1 point

- 400 km
- 500 km
- 600 km
- 300 km

23. A person covers a distance in 40 min if he runs at a speed of 45 km/hr on an average. Find the speed at which he must run to reduce the time of journey to 30 min. \*

1 point

- 70 km/hr
- 60 km/hr
- 50 km/hr
- 20 km/hr

24. A person has to reach a certain place and he find that he will be 15 min late if he walks at 4 km/hr and 10 min earlier if he walks at 6km/hr .Find the distance he has to cover. \*

1 point

- 3 km
- 4 km
- 5 km
- 6 km

25. A man covers a distance between his house and office on scooter .Having an average speed of 30 km/hr , he is late by 10 min . However, with a speed of 40 km/hr, he reaches his office 5 min earlier. Find the distance between his house and office. \*

1 point

- 10 km
- 20 km
- 30 km
- 40 km

Thankyou!!!

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