

APTITUDE QUIZ

1. Vinay and Versha run a race with their speed in the ratio of 5:3. They prefer to run on a circular track of circumference 1.5 km. What is the distance covered by Vinay when he passes Versha for the seventh time?

- A. 25.25 km
- B. 26.25 km
- C. 13.2 km
- D. 14.5 km

2. Two boats go downstream from point X to Y. The faster boat covers the distance from X to Y, 1.5 times as fast as slower boat. It is known that for every hour slower boat lags behinds the faster boat by 8 km. however, if they go upstream, then the faster boat covers the distance from Y to X in half the time as the slower boat. Find the speed of the faster boat in still water?

- A. 12 kmph
- B. 20 kmph
- C. 24 kmph
- D. 25 kmph
- E. None of these

3. A dog after traveling 50 km meets a swami who counsels him to go slower. He then proceeds at $\frac{3}{4}$ of his former speed and arrives at his destination 35 min late. Had the meeting occurred 24 km further the dog would have reached its destination 25 min late. The speed of dog is:

- A. 48 kmph
- B. 36 kmph
- C. 54 kmph
- D. 58 kmph

4. A girl while walking diametrically across a semicircular playground, takes 3 minutes less than if she had kept walking round the circular path from A to B. If she walks 60 metres a minute, what is diameter of the play ground?

- A. 60 m
- B. 48 m
- C. 84 m
- D. 315 m
- E. None of these

5. The driver of an ambulance sees a school bus 40 m ahead of him after 20 seconds; the school bus is 60 meter behind. If the speed of the ambulance is 30 km/h, what is the speed of the school bus?

- A. 10 kmph
- B. 12 kmph
- C. 15 kmph
- D. 22 kmph

6. A minibus takes 6 hour less to cover 1680 km distance, if its speed is increased by 14 kmph ? What is the usual time of the minibus ?

- A. 15 h
- B. 24 h
- C. 25 h
- D. 30 h

7. A man reduces his speed from 20 kmph to 18 kmph. So, he takes 10 minutes more than the normal time. what is the distance traveled by him.

- A. 30 km
- B. 25 km

C. 50 km

D. 36 km

8. A certain distance is covered at a certain speed. If half of this distance is covered in double the time, the ratio of the two speed is :

A. 1:16

B. 4:1

C. 2:1

D. 1:4

9. A is twice fast as B and B is thrice fast as C. The journey covered by C in 78 minutes will be covered by A in :

A. 13 min

B. 15.5 min

C. 17 min

D. 12 min

10. A man goes to the fair with his and dog. Unfortunately man misses his son which he realizes 20 minutes later. The son comes back towards his home at the speed of 20 m/min and man follows him at 40 m/min. The dog runs to son and comes back to the man to show him the direction of his son. He keeps moving to and fro at 60 m/min between son and father, till the man meets the son. What is the distance traveled by the dog in the direction of the son?

- A. 800 m
- B. 1675 m
- C. 848 m
- D. 1000 m
- E. None of these

11. A tiger is 50 of its own leaps behinds a deer. The tiger takes 5 leaps and per minutes to the deer's 4. If the tiger and the deer cover 8 m and 5 m per leap respectively, what distance will the tiger have to run before it catches the deer?

- A. 600m
- B. 700m
- C. 800m
- D. 1000m
- E. None of these

12. A candle of 6 cm long burns at the rate of 5 cm in 5 hour and another candle 8 cm long burns at the rate of 6 cm in 4h. What is the time required to each candle to remain of equal lengths after burning for some hours, when they starts to burn simultaneously with uniform rate of burning?

- A. 1h
- B. 1.5h
- C. 2h
- D. 3h
- E. 4h

13. A man walking at the speed of 4km/hr, cross a square field diagonally in 3 minutes. The area of the field is?

- A. 20000 sqm
- B. 25000 sqm
- C. 18000 sqm
- D. 19000 sqm

14. A train approaches a tunnel AB. Inside the tunnel a cat located at a point i.e. $\frac{5}{12}$ of the distance AB measured from the entrance A. When the train whistles the Cat runs. If the cat moves to the exit B, the train catches the cat exactly the exit. The speed of the train is greater than the speed of the cat by what order ?

- A. 1:6
- B. 3:5
- C. 6:1
- D. 5:4
- E. None of these

15. An individual is cycling at a speed of 25 km per hour. He catches his predecessor who had started earlier in two hours. What is the speed of his predecessor who had started 3 hours earlier ?

- A. 15 kmph
- B. 12 kmph
- C. 10 kmph
- D. 8 kmph

16. A 6 cm long cigarette burns up in 15 minutes if no puff is taken. For every puff, it burns three times as fast during the duration of the puff. If the cigarette burns itself in 13 minutes, then how many puffs has the smoker taken if the average puff lasted 3 seconds?

- A. 17
- B. 18
- C. 20
- D. 22
- E. None of these

17. An old man driving bike at 80 km per hour. However being sugar patient, old man could not travel continuously. He takes small breaks each of 2 minutes for every 15 minute of his drive. How much distance the old man will cover in 90 minutes?

- A. 112 Km
- B. 104 Km
- C. 89 Km
- D. 118 Km

18. Two trains start simultaneously from two stations Howrah and Delhi, respectively towards each other on the same track. The distance between the two stations is 560 km and the speeds of trains are 30 kmph and 40 kmph. Simultaneously with the trains, a sparrow sitting on the top of one of the train starts towards the other and reverses its direction on reaching the other train and so on. If the speed of sparrow is 80 kmph then the distance that the sparrow lies before being crushed between the train is :

- A. 70 km
- B. 560 km
- C. 640km
- D. 650km
- E. None of these

19. Due to the technical snag in the signal system two trains start approaching each other on the same track from two different stations, 240 km away each other. When the train starts a bird also starts moving to and fro between the two trains at 60 kmph touching each train each time. The bird initially sitting on the top of the engine of one of the trains and it moves so till these trains collide. If these trains collide one and half hour after start, then how many kilometers bird travels till the time of collision of trains?

- A. 90 km

- B. 130 km
- C. 120km
- D. 95 km
- E. None of these

20. Two planes move along a circle of circumference 1.2 km with constant speeds. When they move in different directions, they meet every 15 seconds and when they move in the same direction, one plane overtakes the other every 60 seconds. Find the speed of the slower plane.

- A. 0.04 km/s
- B. 0.03 km/s
- C. 0.05 km/s
- D. 0.02 km/s
- E. None of these

ANSWERS

- 1. B**
- 2. B**
- 3. A**

4. D

5. B

6. D

7. A

8. B

9. A

10. D

11. C

12. E

13. A

14. C

15. C

16. C

17. B

18. C

19. A

20. B

