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Time and Distance Questions for RBI Asst. Pre, IBPS Clerk Pre, IBPS RRB Office Asst. Pre and SBI Clerk Pre Exams

Time and Distance Quiz 11

Directions : Read the following questions carefully and choose the right answer.

1. **Suraj travels a certain distance at a speed of 100 km/hr and Amit travels the same distance at a speed of 120 km/hr. If the ratio of the time taken by them is (a + 1) : a, then calculate the distance travelled?**

   A. 600 km B. 580 km C. 540 km D. 560 km E. 570 km

2. **Bhanu takes 40 minutes more than time taken by Raaj to cover a certain distance. The ratio of the speeds of Bhanu and Raaj is 1 : 1.5. Calculate the sum of the time taken by Bhanu and Raaj together to cover that certain distance?**

   A. 200 min B. 180 min C. 220 min D. 175 min E. 185 min

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3. **Sonia drives 20% faster than Deepika. Both start at the same time from point A and reach point B at the same time because Sonia took 1 hour for shopping in a Mall on the way. Find the speed of Deepika, if the distance travelled is 20 km?**

   A. $3\frac{1}{3}$ km/hr B. $5\frac{1}{2}$ km/hr C. 5.5 km/hr D. $4\frac{1}{4}$ km/hr E. 6.2 km/hr

4. **A takes 1 hour more than B to cover 90 km. If A travels by 2/3rd his speed, then he would take 2.5 hours more than B. Find the average of speeds of A and B?**

   A. 35 km/hr B. 37.5 km/hr C. 32.5 km/hr D. 35.4 km/hr E. 36.5 km/hr

5. **The speed of a bus is twice the speed of a bike. The bike covers a distance of 720 km in 12 hours. The speed of bus and bike is increased by 10% and 20% respectively. How much time is taken by a man to cover a total of 1584 km, half by bus and half by bike?**

   A. 17 hours B. 21 hours C. 15 hours D. 18 hours E. 14 hours

6. **A man covers x/10 km by bicycle in 5 hours and x + 50 km by car in 7.5 hours. If the difference between the speed of car and bicycle is 52 km/hr, then find the value of (x + 50)?**

A. 350 B. 450 C. 500 D. 420 E. 400

7. **Shubham decides to travel 420 km in 12 hours partly by bus and partly by taxi. His speed while travelling by bus is 30 km/hr and by taxi it is 50 km/hr. What distance would he travel by bus?**

A. 240 km B. 270 km C. 280 km D. 300 km E. 330 km

8. **If Shubham reduces his speed by 25%, he takes 24 minutes to reach his office. Find the time taken by Shubham (in minutes) to reach his office if he increases his speed by 10%.**

A. $15\frac{4}{11}$ min. B. $16\frac{4}{11}$ min. C. $12\frac{4}{11}$ min. D. $13\frac{4}{11}$ min. E. $14\frac{4}{11}$ min.

9. **Amit and Deepak start together to walk a certain distance. Amit walks at 3 km/hr and Deepak at 5 km/hr. Amit reaches 1 hour later. Find the time that Deepak would have needed to walk the same distance, had he increased his speed by 1 km/hr?**

A. 1.25 hrs. B. 1.5 hrs. C. 1.24 hrs. D. 1.4 hrs. E. 1.35 hrs.

10. **Yug covers 40% of his total distance in car at a speed of 80 km/hr. Out of the remaining distance, he covers 2/3rd of the distance at a speed of 160 km/hr and the rest distance at a speed of 50 km/hr. If the total time taken to cover the entire distance is 11.5 hours, then find the total distance covered by him?**

A. 1200 km B. 2400 km C. 1500 km D. 1000 km E. 1800 km

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Correct Answers:

1	2	3	4	5	6	7	8	9	10
A	A	A	B	A	B	B	B	A	D

Explanation:

1. ATQ,

$100 \times (a + 1) = 120 \times a$

$\Rightarrow \quad \frac{5}{6} = \frac{A}{a + 1}$

$\Rightarrow \quad 5a + 5 = 6a$

$\Rightarrow \quad a = 5$

T = 5 hrs, S = 120 km/hr

D = 120 × 5 = 600 km

Hence, option A is correct.

2.

	Bhanu		Raaj
Speed ratio	10		15
	2	:	3
Time ratio	3	:	2

Difference of 1 corresponds to 40 min

3 will correspond to = 3 × 40 = 120 min

2 will correspond to = 2 × 40 = 80 min

Total time = 120 + 80 = 200 min

Hence, option A is correct.

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3. Let the speed of Deepika be 10. Distance is same so, time will be inversely proportional to speed.

	Sonia	Deepika
Speed	12	10
Time	10	12

Time taken is same, so to equate the time, 2 must be added to time of Sonia.

Value of this 2 is = 1 hour

Time of Deepika = $\frac{12}{2}$ = 6 hours

Speed = $\frac{20}{6} = 3\frac{1}{3}$ km/hr

Hence, option A is correct.

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4. Let us assume that B reaches by 2pm, so A will reach at 3 pm.

When A travels by 2/3rd of his speed, he would take 2.5 hours more than B

So, A will reach by 4 : 30 pm. Since, his speed is decreased he takes 1.5 hours more.

Speed ratio of A = 1 : $\frac{2}{3}$ = 3 : 2

Time ratio of A = 2 : 3

Time is increased by 1, 1 corresponds to 1.5 hours

2 will correspond to = 3 hours

So, A took previously = 3 hours

And B took 1 hour less than A, so A took 1 hour.

Speed of A = $\frac{90}{3}$ = 30 km/hr

Speed of B = $\frac{90}{2}$ = 45 km/hr

Average = $\frac{30 + 45}{2}$ = 37.5 km/hr

Hence, option B is correct.

5. Speed of bike

= $\frac{720}{12}$ = 60 km/hr

Speed of bike after increase = 60 (1.2) = 72 km/hr

Speed of bus = 120 km/hr

Speed of bus after increase = 120 (1.1) = 132 km/hr

1584 km covered half by bus and half by bike,

Time = $\frac{792}{132} + \frac{792}{72}$ = 6 + 11 = 17 hours

Hence, option A is correct.

6.

$\frac{(x + 50)}{7.5} - \frac{x}{50} = 52$

$\frac{\{50 (x + 50) - 7.5x\}}{7.5 \times 50} = 52$

$50x + 2500 - 7.5x = 52 \times 7.5 \times 50$

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42.5x = 19500 – 2500

x = 400

x + 50 = 450 km

Hence, option B is correct.

7. By allegation method

Speed of bus Speed of taxi

30 50

\ /

420/12 = 35

/ \

15 5

= 3 : 1

Speed is calculated with respect to time

So, 3 : 1 is the ratio of time

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Total time = 12 hours

Ratio of time = 9 : 3

Distance travelled by bus = 30 × 9 = 270 km

Hence, option B is correct.

8.

25% = $\frac{1}{4}$

Speed : 4 → 3 {speed reduced by 25%}

Time : 3 → 4 {when distance is constant, speed is inversely proportional to time}

4 corresponds to 24

1 will correspond to = $\frac{24}{4}$ = 6

3 will correspond to = 6 × 3 = 18 mins

With 100% speed, 18 minutes is taken,

With 110% speed, time taken

= $\frac{18 \times 100}{110}$ = $16\frac{4}{11}$ minutes

Hence, option B is correct.

9. Speed of Deepak = 5 km/hr

Speed of Amit = 3 km/hr

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$\frac{d}{3} - \frac{d}{5}$ = 1 km/hr

$\frac{2d}{15}$ = 1

d = $\frac{15}{2}$ = 7.5 km

Reqd. time = $\frac{7.5}{6}$ = 1.25 hours

Hence, option A is correct.

10. Let the distance be 100A.

According to the question,

40% of the distance = 100 A × $\frac{40}{100}$ = 40A

2/3rd of the remaining distance

= 60A × $\frac{2}{3}$ = 40A

Rest distance = 20A

$$\frac{40A}{80} + \frac{40A}{160} + \frac{20A}{50} = 11.5$$

$$\frac{A}{2} + \frac{A}{4} + \frac{2A}{5} = 11.5$$

$$\frac{23A}{20} = 11.5$$

A = 10

Total distance = 1000 km.

Hence, option D is correct.

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