

Quiz Date: 15th July 2020

Q1. A boat running downstream covers a distance of 16 km in 2 hours while for covering the same distance upstream, it takes 4 hours. What is the speed of the boat in still water?

- (a) 4 kmph
- (b) 6 kmph
- (c) 8 kmph
- (d) 2 kmph
- (e) 10 kmph

Q2. A man's speed with the current is 15 kmph and the speed of the current is 2.5 kmph. The man's speed against the current is:

- (a) 8.5 kmph
- (b) 9 kmph
- (c) 10 kmph
- (d) 12.5 kmph
- (e) 14 kmph

Q3. A man can row at 5 kmph in still water. If the velocity of current is 1 kmph and it takes him 1 hour to row to a place and come back, how far is the place?

- (a) 2.4 km
- (b) 2.5 km
- (c) 3 km
- (d) 3.6 km
- (e) 4.6 km

Q4. A man can row against the current three fourth of a kilometer in 15 min and returns same distance in 10 min, then ratio of his speed to that of current is:

- (a) 3 : 5
- (b) 5 : 3
- (c) 1 : 5
- (d) 5 : 1
- (e) 4 : 1

Q5. If the speed of a swimmer in still water is 9 kmph. Find the downstream speed of the swimmer, when the river is flowing with the speed of 6 kmph.

- (a) 15 kmph
- (b) 18 kmph
- (c) 3 kmph
- (d) 12 kmph
- (e) 10 kmph

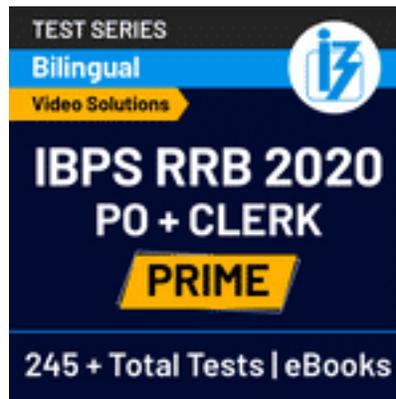
Q6. A man can row 6 kmph in still water. If the speed of the current is 2 kmph, it takes 3 hours more in upstream than in the downstream for the same distance. The distance is:

- (a) 30 km
- (b) 24 km

- (c) 20 km
- (d) 32 km
- (e) 28 km

Q7. Jaipur express left Delhi for Jaipur at 14 : 30 hours, travelling at a speed of 60 kmph and Rajdhani Express left Delhi for Jaipur on the same day at 16 : 30 hours, travelling at a speed of 80 kmph. How far away from Delhi will the two trains meet?

- (a) 120 km
- (b) 360 km
- (c) 480 km
- (d) 500 km
- (e) None of these



Q8. A person covers a total distance of 140 km in 15 hours. He covers some part of journey by bus with a speed of 14 km/h and rest part of Journey by cycle with a speed of 7km/h. What distance he covered by cycle?

- (a) 80 km
- (b) 70 km
- (c) 50 km
- (d) 60 km
- (e) 85 km

Q9. A person covers 9 km with a speed of 3 km/hr, 25km with a speed of 5 km/hr and 30 km with a speed of 10 km/hr. Find out the average speed of person.

- (a) $5\frac{9}{11}$ km/hr
- (b) $11\frac{5}{9}$ km/hr
- (c) $9\frac{5}{11}$ km/hr
- (d) $5\frac{5}{11}$ km/hr
- (e) None of these

Q10. A car travels a certain distance from town A to town B at the speed of 42 km/hr and from town B to town A at a speed of 48 km/hr. What is the average speed of the car?

- (a) 45 km/hr
- (b) 46 km/hr
- (c) 44 km/hr
- (d) 44.8 km/hr
- (e) 46.8 km/hr

Q11. Train- A crosses a stationary train – B in 35 seconds and a pole in 14 seconds with the same speed. The length of the train – A is 280 metres. What is length of the stationary train – B?

- (a) 360 metres
- (b) 480 metres
- (c) 400 metres
- (d) 420 meters
- (e) 300 meters

Q12. A 320 metres long train moving with an average speed of 120 km/hr crosses a platform in 24 seconds. A man crosses the same platform in 4 minutes. What is the speed of the man in metre/second?

- (a) 2.4 m/sec
- (b) 1.5 m/sec
- (c) 1.3 m/sec
- (d) 2.0 m/sec
- (e) 4 m/sec

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Q13. The ratio between the speed of a bus and train is 15 : 27 respectively. Also, a car covers a distance of 720 km in 9 hours. The speed of the bus is three-fourth of the speed of the car. How much distance will the train cover in 7 hours?

- (a) 760 km
- (b) 756 km
- (c) 740 km
- (d) 836 km
- (e) 820 km

Q14. Train A which is 320m long crosses a pole in 16 seconds. If it halts 5 times each time for exactly 18 minutes, how many hours will it take to cover a distance of 576 km?

- (a) 8 hours
- (b) 10 ½ hours
- (c) 8 ½ hours
- (d) 9 hours
- (e) 9 ½ hours

Q15. A 240 metres long train crosses a platform twice its length in 40 seconds. What is the speed of the train?

- (a) 6 meters/sec
- (b) 28 meters/sec
- (c) 18 meters/sec

- (d) 16 meters/sec
(e) 45 meters/sec

Solutions

S1. Ans.(b)

Sol.

Speed of boat in still water

$$= \frac{1}{2} \times (8 + 4)$$

$$= 6 \text{ km/h}$$

S2. Ans.(c)

Man's speed in still water

$$= 15 - 2.5$$

$$= 12.5 \text{ kmph}$$

∴ Man's speed against current

$$= 12.5 - 2.5$$

$$= 10 \text{ kmph}$$

Sol.



S3. Ans.(a)

Sol.

Let required distance is d km

$$\therefore \frac{d}{4} + \frac{d}{6} = 1$$

$$\Rightarrow d = \frac{12}{5} \text{ km}$$

$$= 2.4 \text{ km}$$

S4. Ans.(d)

Sol.

Let man's speed in still water = v kmph

Speed of current = s kmph

$$\therefore (v + s) \times 10 = (v - s) \times 15$$

$$\Rightarrow 2v + 2s = 3v - 3s$$

$$\Rightarrow v : s = 5 : 1$$

S5. Ans.(a)

Sol.

$$\begin{aligned}\text{Downstream speed} &= 9 + 6 \\ &= 15 \text{ kmph}\end{aligned}$$

S6. Ans.(b)

Sol.

Let distance = d km

$$\begin{aligned}\therefore \frac{d}{4} - \frac{d}{8} &= 3 \\ \Rightarrow d &= 24 \text{ km}\end{aligned}$$

S7. Ans.(c)

Sol.

$$\begin{aligned}\text{Distance covered by Jaipur express in 2 hours} \\ &= 60 \times 2 \\ &= 120 \text{ km}\end{aligned}$$

Let Rajdhani express takes t hours to catch Jaipur express

$$\begin{aligned}\therefore 80 \times t &= 60 \times (2 + t) \\ \Rightarrow t &= 6 \text{ h} \\ \therefore \text{Required answer} &= 80 \times 6 \\ &= 480 \text{ km}\end{aligned}$$

S8. Ans. (b)

Sol.

Let he covers x km by bus.

$$\begin{aligned}\therefore \frac{x}{14} + \frac{(140-x)}{7} &= 15 \\ \Rightarrow x + 280 - 2x &= 210 \\ \Rightarrow x &= 70 \text{ km} \\ \therefore \text{Distance covered by cycle} &= 140 - 70 \\ &= 70 \text{ km}\end{aligned}$$

S9. Ans. (a)

Sol.

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Here, P = 9 km, Q = 25km, R = 30km
 $x = 3$ km/hr, $y = 5$ km/hr and $z = 10$ km/hr

$$\begin{aligned} \therefore \text{Required average speed} &= \frac{P+Q+R}{\frac{P}{x} + \frac{Q}{y} + \frac{R}{z}} \\ &= \frac{9+25+30}{\frac{9}{3} + \frac{25}{5} + \frac{30}{10}} \\ &= \frac{64}{3+5+3} = \frac{64}{11} = 5\frac{9}{11} \text{ km/hr} \end{aligned}$$

S10. Ans. (d)

Sol.

If two equal distances are covered at different speeds at A kmph and B kmph respectively, then,

Average speed during the whole

$$\text{Journey} = \frac{2AB}{A+B} \text{ kmph}$$

$$\begin{aligned} \therefore \text{Average speed of the car} &= \frac{2 \times 42 \times 48}{42+48} \\ &= \frac{2 \times 42 \times 48}{90} = 44.8 \text{ kmph} \end{aligned}$$

S11. Ans.(d)

Sol.

$$\text{Speed of train A} = \frac{280}{14} = 20 \text{ m/sec}$$

Let length of train B = ℓ meters

$$\therefore \frac{280 + \ell}{20} = 35$$

$$\Rightarrow \ell = 700 - 280$$

$$= 420 \text{ m}$$

S12. Ans.(d)

Sol.

$$\begin{aligned} \text{Speed of train (in m/sec)} &= 120 \times \frac{5}{18} \\ &= \frac{100}{3} \text{ m/sec} \end{aligned}$$

Let speed of man = x m/sec

\therefore length of platform in first case = length of platform in second case

$$\Rightarrow \frac{100}{3} \times 24 - 320 = 4 \times 60 \times x$$

$$\Rightarrow x = \frac{480}{240}$$

$$\Rightarrow x = 2 \text{ m/sec}$$

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S13. Ans.(b)

Sol.

$$\text{Speed of car} = \frac{720}{9} = 80 \text{ km/h}$$

$$\text{Speed of bus} = \frac{3}{4} \times 80 = 60 \text{ km/h}$$

$$\therefore \text{speed of train} = \frac{27}{15} \times 60$$

$$= 108 \text{ km/h}$$

$$\therefore \text{Distance travelled by train in 7 hours}$$

$$= 108 \times 7 = 756 \text{ km}$$

S14. Ans.(e)

Sol.

$$\text{Speed of train} = \frac{320}{16} = 20 \text{ m/sec}$$

$$\text{Total time of halts} = 18 \times 5$$

$$= 90 \text{ minutes}$$

$$= 1 \text{ h } 30 \text{ min}$$

$$\therefore \text{Required answer} = \frac{576}{20 \times \frac{18}{5}} + \frac{3}{2}$$

$$= 9 \frac{1}{2} \text{ hours}$$

S15. Ans.(c)

Sol.

$$\text{Speed of train} = \frac{240 + 2 \times 240}{40}$$

$$= \frac{720}{40} = 18 \text{ m/sec}$$

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