

Quiz Date: 30th August 2020

Q1. A boy rides his bicycle 10 km at an average speed of 12 km per hr and again travels 12 km at an average speed of 10 km per hr. His average speed for the entire trip is approximately:

- (a) 10.4 km/hr
- (b) 10.8 km/hr
- (c) 11.0 km/hr
- (d) 12.2 km/hr
- (e) None of these

Q2. A train of length (ℓ_1) 200 m, crosses a platform of length (ℓ_2) which is 50 m more than ℓ_1 , in 18 sec. Find the speed of train.

- (a) 20 m/s
- (b) 25 m/s
- (c) 30 m/s
- (d) 28 m/s
- (e) None of these

Q3. A boat against the current goes at 4 km per hour and in the direction of the current at 8 km per hour. The boat in going to a place B from A in upward and downward direction takes 45 minutes. Find the distance between A and B.

- (a) 2.5 km
- (b) 2.25 km
- (c) 3 km
- (d) 2 km
- (e) 3.5 km

Q4. A box contains 5 green, 4 yellow and 3 white marbles. Three marbles are drawn at random. What is the probability that they all are not of the same colour ?

- (a) $\frac{3}{44}$
- (b) $\frac{3}{55}$
- (c) $\frac{52}{55}$
- (d) $\frac{41}{44}$
- (e) $\frac{4}{11}$

Q5. Ayush can do a work in 40 days and Rahul is 25% more efficient than Ayush. If Ayush started and worked for 15 days and left then in how many days will Rahul do the remaining work ?

- (a) 16 days
- (b) 20 days
- (c) 28 days
- (d) 24 days

(e) 12 days

Directions (6 – 10): What should come in place of question mark (?) in the following questions?

Q6. $3\frac{2}{7}$ of $2\frac{3}{23}$ of 123 - $14\frac{2}{7}\%$ of 847 = ?

- (a) 700
- (b) 720
- (c) 740
- (d) 780
- (e) 680

Q7. $\frac{1313}{1300} - \frac{1414}{700} + \frac{5500}{5000} + \frac{1717}{1700} = ?$

- (a) 1.9
- (b) 1.7
- (c) 2.5
- (d) 2.3
- (e) 1.1

Q8. $\sqrt[3]{1331} + \sqrt{8281} \div \sqrt[3]{2197} \times \sqrt{4} = ?^2$

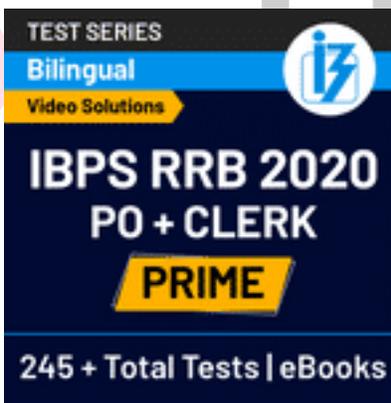
- (a) 25
- (b) 5
- (c) 6
- (d) 36
- (e) 2

Q9. $1234 \times 2 \div 3702 + 171 \div 513 = ?$

- (a) 1
- (b) 1.1
- (c) 1.3
- (d) 1.5
- (e) 0.8

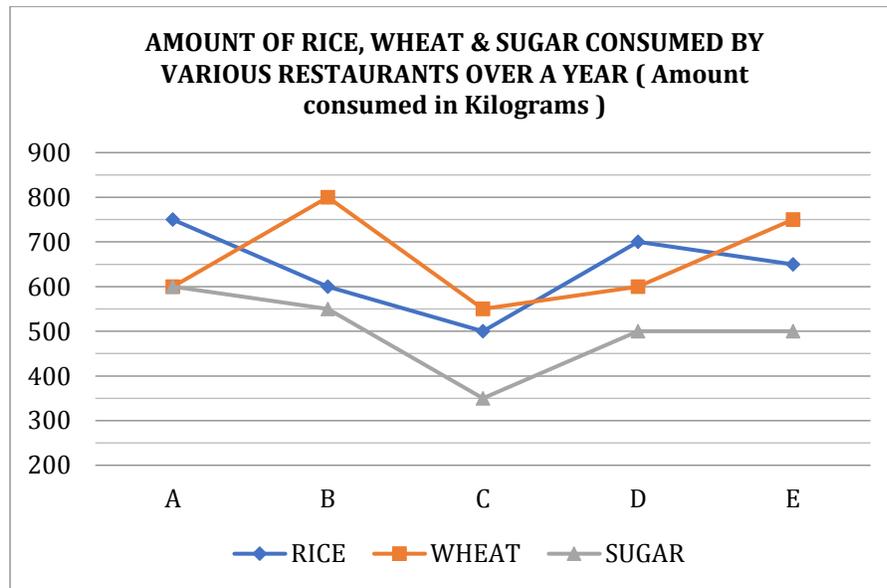
Q10. $16\frac{2}{3}\%$ of 2520 + $11\frac{1}{9}\%$ of 567 - $9\frac{1}{11}\%$ of 605 = ?

- (a) 420



- (b)408
- (c)380
- (d)428
- (e)388

Directions (11 - 15): Study the following Graph carefully and answer the question given below.



Q11. What is the respective ratio of the amount of rice, wheat and sugar consumed by Restaurant B to the same consumed by Restaurant E?

- (a) 18 : 17
- (b) 29 : 27
- (c) 33 : 28
- (d) 39 : 38
- (e) 34 : 31

Q12. What is the average amount of rice, Wheat and sugar consumed by all the restaurants?

- (a) 1800 kgs.
- (b) 1790 kgs.
- (c) 1900 kgs.
- (d) 1950 kgs.
- (e) 1570 kgs.

Q13. Sugar consumed by Restaurant D is approximately what per cent of rice and wheat consumed by the same Restaurant? (in %)

- (a) 32
- (b) 25
- (c) 38
- (d) 42

(e) 29

Q14. Rice consumed by Restaurant C is approximately what per cent of the rice consumed by all the Restaurants together? (in %)

- (a) 12
 (b) 18
 (c) 21
 (d) 24
 (e) 16



Q15. What is the difference between the average amount of wheat and the average amount of sugar consumed by all the Restaurants together?

- (a) 145 kgs.
 (b) 160 kgs.
 (c) 155 kgs.
 (d) 150 kgs.
 (e) 147 kgs.

Solutions

S1. Ans (b)

Sol. Average speed = total distance / total time

$$= \frac{10+12}{\left(\frac{10}{12} + \frac{12}{10}\right)} = 10.8 \text{ km/hr}$$

S2. Ans.(b)

Sol. $l_1 = 200 \text{ m}$

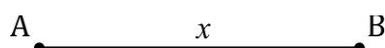
$$l_2 = 200 + 50 = 250 \text{ m}$$

$$\therefore \text{Speed of train} = \frac{200+250}{18}$$

$$= 25 \text{ m/s}$$

S3. Ans.(d)

Sol.



$$S_{UP} : S_{down} = 4 : 8$$

$$\frac{x}{4} + \frac{x}{8} = \frac{45}{60}$$

$$\Rightarrow \frac{3x}{8} = \frac{45}{60}$$

$$\Rightarrow x = 2 \text{ km}$$

$$AB = 2 \text{ km}$$

S4. Ans.(d)

$$\text{Sol. probability all marbles are of same color} = \frac{5c_3 + 4c_3 + 3c_3}{12c_3} = \frac{3}{44}$$

$$\text{Req. probability} = 1 - \frac{3}{44} = \frac{41}{44}$$

S5. Ans.(b)

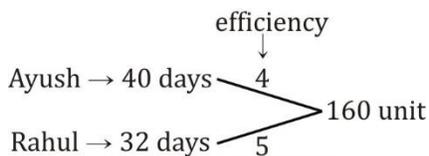
Sol.

Ratio of efficiency of Ayush and Rahul = 100 : 125 = 4 : 5

∴ Ratio of time taken by Ayush and Rahul = 5 : 4

∴ Ayush does the work in 40 days.

∴ Rahul does the work in 32 days.



∴ work completed by Ayush in 15 days = 15 × 4 = 60 unit.

Remaining work = 160 - 60 = 100 unit

∴ Remaining work completed by Rahul in

$$= \frac{100}{5} = 20 \text{ days.}$$

S6. Ans (c)

Sol. $3\frac{2}{7}$ of $2\frac{3}{23}$ of 123 - $14\frac{2}{7}\%$ of 847

$$= \frac{23}{7} \times \frac{49}{23} \times 123 - \frac{100}{700} \times 847$$

$$= 7 \times 123 - \frac{847}{7}$$

$$= 861 - 121$$

$$?= 740$$

S7. Ans (e)

$$\text{Sol. } \frac{1313}{1300} - \frac{1414}{700} + \frac{5500}{5000} + \frac{1717}{1700}$$

$$= 1.01 - 2.02 + 1.1 + 1.01$$

$$?= 1.1$$

S8. Ans (b)

$$\text{Sol. } \sqrt[3]{1331} + \sqrt{8281} \div \sqrt[3]{2197} \times \sqrt{4}$$

$$= 11 + 91 \div 13 \times 2$$

$$?^2=25$$

$$? = \pm 5$$

$$? = 5$$

S9. Ans (a)

$$\begin{aligned} \text{Sol. } 1234 \times 2 \div 3702 + 171 \div 513 &=? \\ &= 1234 \times \frac{2}{3702} + \frac{171}{513} \\ &= \frac{2}{3} + \frac{1}{3} \\ ? &= 1 \end{aligned}$$

S10. Ans (d)

$$\begin{aligned} \text{Sol. } 16\frac{2}{3}\% \text{ of } 2520 + 11\frac{1}{9}\% \text{ of } 567 - 9\frac{1}{11}\% \text{ of } 605 &=? \\ &= \frac{100}{600} \times 2520 + \frac{100}{900} \times 567 - \frac{100}{1100} \times 605 \\ &= \frac{2520}{6} + \frac{567}{9} - \frac{605}{11} \\ &= 420 + 63 - 55 \\ ? &= 428 \end{aligned}$$

S11. Ans.(d)

$$\begin{aligned} \text{Sol. Ratio} &= 600+800+550 : 650+750+500 \\ &= 1950 : 1900 \\ &= 39 : 38 \end{aligned}$$

S12. Ans.(a)

Sol. Total consumption of rice, wheat and sugar :

Restaurant A = 1950 kgs

Restaurant B = 1950 kgs

Restaurant C = 1400 kgs

Restaurant D = 1800 kgs

Restaurant E = 1900 kgs

$$\text{Average} = \frac{1950+1950+1400+1800+1900}{5} = 1800 \text{ kgs}$$

S13. Ans.(c)

$$\begin{aligned} \text{Sol. } \frac{500}{(700+600)} \times 100 \\ &= \frac{500}{1300} \times 100 = 38.46\% \approx 38\% \text{ (approx)} \end{aligned}$$

S14. Ans.(e)

$$\text{Sol. } \frac{500}{3200} \times 100 = 15.63\% \approx 16\% \text{ (approx)}$$

S15. Ans.(b)

$$\text{Sol. Average (wheat)} = \frac{3300}{5} = 660 \text{ kgs}$$

$$\text{Average (sugar)} = \frac{2500}{5} = 500 \text{ kgs}$$

$$\text{Difference} = 660 - 500 = 160 \text{ kgs}$$

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