

Quiz Date: 22nd September 2020

Directions (1-5): What approximate value should come in place of the question mark (?) in the following questions? (You are not expected to calculate the exact value)

Q1. $31.85 \div 3.96 \times 15 = ?$

- (a) 120
- (b) 90
- (c) 80
- (d) 140
- (e) 160

Q2. $4.99 \times 12.865 + 599 = ?$

- (a) 620
- (b) 655
- (c) 665
- (d) 675
- (e) 685

Q3. $21 + 63 \div 17 = ?$

- (a) 35
- (b) 40
- (c) 10
- (d) 25
- (e) 15

Q4. $1584 \div 24.89\% \text{ of } 352.02 = ?$

- (a) 24
- (b) 18
- (c) 12
- (d) 28
- (e) 8

Q5. $5823.89 \div 364 \times \sqrt{224.99} = ?$

- (a) 250
- (b) 240
- (c) 230
- (d) 235
- (e) 255

Q6. If a person invested equal amount in 2 scheme A and B for 3 years and 1.5 years respectively if Scheme A offers 10 % S.I per annum and scheme B offer 20% C.I compounded half yearly. if the difference between their interests obtain Rs.620 then find the total invested amount in both the scheme.

- (a) 10000 Rs
- (b) 20000 Rs

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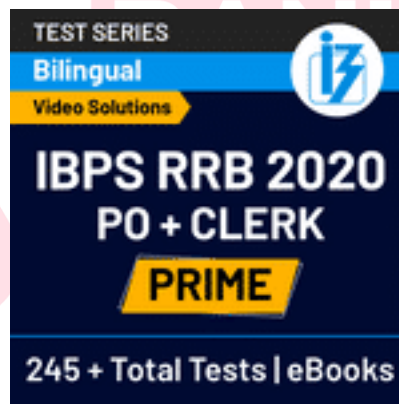
- (c) 40000 Rs
- (d) 50000 Rs
- (e) 60000 Rs

Q7. How many different words can be formed from word "CORRECTION" such that all vowels come together?

- (a) 15120
- (b) 30240
- (c) 7560
- (d) 720
- (e) 12800

Q8. If A and B together can complete the work in 10 days, B and C together can complete the same work in 12 days and A and C together can complete same work in 15 days so, if all of them work together in how many days they will complete the work?

- (a) 9 Days
- (b) 5 Days
- (c) 8 Days
- (d) 10 Days
- (e) 7 Days



Q9. In what ratio should rice of two quality Rs.15 per kg and Rs.20 per kg should be mixed to get the price of Rs.17.25 per kg ?

- (a) 11 : 9
- (b) 9 : 11
- (c) 11 : 12
- (d) 9 : 13
- (e) 13 : 12

Q10. In 200 liters mixture milk and water are in the ratio 4:1. If 40 liters mixture is replaced with water.so what will be the present ratio of milk and water in new mixture?

- (a) 9 : 16
- (b) 16 : 11
- (c) 11 : 9
- (d) 16 : 9
- (e) 9 : 11

Directions (11-15): In these questions, two equations numbered I and II are given. You have to solve both the equations and give answer

(a) $x \geq y$

(b) $x \leq y$

(c) $x < y$

(d) $x > y$

(e) Relationship between x and y cannot be established

Q11. I. $6x^2 + 5x + 1 = 0$

II. $15y^2 + 8y + 1 = 0$

Q12. I. $x^2 + 5x + 6 = 0$

II. $4y^2 + 24y + 35 = 0$

Q13. I. $2x^2 + 5x + 3 = 0$

II. $y^2 + 9y + 14 = 0$

Q14. I. $88x^2 - 19x + 1 = 0$

II. $132y^2 - 23y + 1 = 0$

Q15. I. $6x^2 - 7x + 2 = 0$

II. $20y^2 - 31y + 12 = 0$

S1. Ans.(a)

Sol. $? \approx 32 \div 4 \times 15$

$? \approx 120$

S2. Ans.(c)

Sol. $? \approx 5 \times 13 + 599$

$? \approx 664$

$? \approx 665$

S3. Ans.(d)

Sol. $? \approx 21 + 64 \div 16$

$? \approx 25$

S4. Ans.(b)

Sol. $? \approx 1584 \div \frac{25}{100} \times 352$

$? \approx \frac{1584 \times 100}{25 \times 352}$

$? \approx 18$

S5. Ans.(b)

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$$\text{Sol. ?} \approx \frac{5824}{364} \times 15$$

$$\approx 240$$

S6. Ans(c)

Sol. A.T.Q

Let the total amount be $2x$ Rs

$$\therefore SI = \frac{10 \times 3 \times x}{100} = \frac{3x}{10}$$

$$CI = x \left[1 + \frac{10}{100} \right]^3 - x = \frac{331x}{1000}$$

$$\text{A.T.Q, } CI - SI = 620$$

$$\frac{331x}{1000} - \frac{3x}{10} = 620$$

$$x = 20000$$

So, $2x = 40000$ Rs

S7. Ans(a)

$$\text{Sol. Required no of ways} = \frac{7!}{2! \times 2!} \times \frac{4!}{2!} = 15120$$

S8. Ans(c)

Sol. let the total work be 60 unit

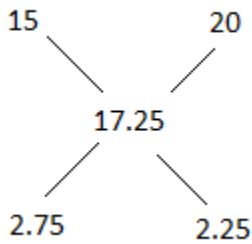
	Days	Efficiency
A+B	10	6
B+C	12	5
C+A	15	4
		60

$$\therefore \text{efficiency of } A + B + C = \frac{15}{2}$$

$$\text{So total time taken by if all the three work together} = \frac{60}{\frac{15}{2}} = 8 \text{ days}$$

S9. Ans(a)

Sol. A.T.Q



\therefore required ratio = 11 : 9

S10. Ans(d)

Sol. A.T.Q as 40 liter mixture is taken out then the resultant quantity of water and milk in the mixture is 32 and 128 liters respectively

After 40-liters water addition.

quantity of water and milk will be 72 and 128 liters respectively

\therefore required ratio = 128 : 72 = 16 : 9

S11. Ans.(b)

Sol.

I. $6x^2 + 5x + 1 = 0$

$\Rightarrow (3x + 1)(2x + 1) = 0$

$\Rightarrow x = -\frac{1}{3}, -\frac{1}{2}$

II. $15y^2 + 8y + 1 = 0$

$\Rightarrow (3y + 1)(5y + 1) = 0$

$\Rightarrow y = -\frac{1}{3}, -\frac{1}{5}$

$\Rightarrow x \leq y$

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S12. Ans.(e)

Sol.

I. $x^2 + 5x + 6 = 0$

$\Rightarrow (x + 3)(x + 2) = 0$

$\Rightarrow x = -3, -2$

II. $4y^2 + 24y + 35 = 0$

$\Rightarrow 4y^2 + 14y + 10y + 35 = 0$

$\Rightarrow (2y + 7)(2y + 5) = 0$

$\Rightarrow y = -\frac{7}{2}, -\frac{5}{2}$

No relation between x and y

S13. Ans.(d)

Sol.

I. $2x^2 + 5x + 3 = 0$

$\Rightarrow (2x + 3)(x + 1) = 0$

$$\Rightarrow x = -\frac{3}{2}, -1$$

$$\text{II. } y^2 + 9y + 14 = 0$$

$$\Rightarrow (y + 7)(y + 2) = 0$$

$$\Rightarrow y = -7, -2$$

$$\Rightarrow x > y$$

S14. Ans.(a)

Sol.

$$\text{I. } 88x^2 - 19x + 1 = 0$$

$$\Rightarrow (8x - 1)(11x - 1) = 0$$

$$\Rightarrow x = \frac{1}{8}, \frac{1}{11}$$

$$\text{II. } 132y^2 - 23y + 1 = 0$$

$$\Rightarrow (11y - 1)(12y - 1) = 0$$

$$\Rightarrow y = \frac{1}{11}, \frac{1}{12}$$

$$\Rightarrow x \geq y$$

S15. Ans.(c)

Sol.

$$\text{I. } 6x^2 - 7x + 2 = 0$$

$$\Rightarrow 6x^2 - 4x - 3x + 2 = 0$$

$$\Rightarrow (3x - 2)(2x - 1) = 0$$

$$\Rightarrow x = \frac{2}{3}, \frac{1}{2}$$

$$\text{II. } 20y^2 - 31y + 12 = 0$$

$$\Rightarrow 20y^2 - 16y - 15y + 12 = 0$$

$$\Rightarrow (5y - 4)(4y - 3) = 0$$

$$\Rightarrow y = \frac{4}{5}, \frac{3}{4}$$

$$\Rightarrow x < y$$

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