

Quiz Date: 27<sup>th</sup> June 2020

Q1. 5 men and 3 women can earn Rs. 4550 working together for 7 hours a day whereas 3 men and 5 women can earn Rs. 6600 working together for 12 hours a day. Find in how many hours 2 men and 2 women can earn Rs. 2100 working together?

- (a) 8hr
- (b) 5hr
- (c) 10hr
- (d) 7hr
- (e) 6hr

Q2. 6 Men can complete a task in 120 days working 6 hours a day. Find how much time 4 women will take to complete the same task with 75% of man's efficiency working 8 hours a day?

- (a) 240 days
- (b) 180 days
- (c) 120 days
- (d) 224 days
- (e) 108 days

Q3. If a rectangular iron slab of length, breadth and thickness of 24 cm, 18 cm and 4 cm respectively is melted to form a cube, then find the total surface area of the cube.

- (a)  $468 \text{ cm}^2$
- (b)  $578 \text{ cm}^2$
- (c)  $748 \text{ cm}^2$
- (d)  $864 \text{ cm}^2$
- (e)  $684 \text{ cm}^2$

Q4. A and B invests a total amount of Rs 10000 in two schemes respectively for two years. A invests at rate of 10% per annum at CI while B invests at rate of 12.5% at SI. If interest earned by B is Rs 660 more than A, then find amount invested by B.

- (a) Rs 4000
- (b) Rs 5500
- (c) Rs 6000
- (d) Rs 6500
- (e) Rs 5000

Q5. In a mixture, ratio of water and milk is 5 : 8. 26 liters of mixture is replaced with milk, due to which the ratio of water and milk in final mixture becomes 10 : 29. What is the initial quantity of milk?

- (a) 48 liters
- (b) 30 liters
- (c) 58 liters
- (d) 42 liters
- (e) 52 liters

Q6. A and B current age is in the ratio 7:5 and 3 years ago the ages were in ratio 16:11 so what will be the age of B 5 year hence?

- (a) 35
- (b) 25
- (c) 30
- (d) 40
- (e) 20

Q7. Ram and Shyam can complete the work in 5 days and 7 days respectively. if they work alternatively starting with Ram then in how many days work can be completed?

- (a)  $2\frac{5}{9}$  days
- (b)  $4\frac{4}{5}$  days
- (c)  $5\frac{4}{5}$  days
- (d)  $6\frac{7}{9}$  days
- (e)  $3\frac{4}{7}$  days



Q8. A started the business by investing Rs. 'x', after 4 months B also joined the business with the investment of Rs. 'x+10000' . if at the end of the year the profit of both A and B is same. find the amount invested by B.

- (a) RS.20000
- (b) RS.30000
- (c) RS.25000
- (d) RS.35000
- (e) RS.40000

Q9. If an article is marked up 50% above the cost price but after discount seller gets only 20% profit. So, calculate how much percentage discount is given to the customer?

- (a) 30%
- (b) 25%
- (c) 20%
- (d) 5%
- (e) 40%

Q10. If the sum of speed of upstream and downstream is 18 Kmph and speed of Stream is one-third speed of boat in still water. So, calculate the time taken by boat to travel 54 km upstream and 48 km downstream.

- (a) 10 hours
- (b)  $11\frac{2}{9}$  hours
- (c) 13 hours
- (d) 9 hours
- (e) 15 hours

Q11. The average of five numbers is 27 and if average of 1<sup>st</sup> two numbers is 25 and average of last two numbers is 30. Find out the 3<sup>rd</sup> number from starting?

- (a) 23
- (b) 25
- (c) 29
- (d) 27
- (e) 21

Q12. Rs. 14320 have been divided among A, B and C such that A receives  $\frac{3}{7}$ th of what B and C together receive. then find out the share of A?

- (a) Rs. 6538
- (b) Rs. 3452
- (c) Rs. 4253
- (d) Rs. 4296
- (e) Rs. 6358

Q13. In a garden 75% of the total trees are mango trees, remaining 25% trees are Apple trees. If the number of apple trees are 251 then find out the number of mango trees in the garden?

- (a) 813
- (b) 783
- (c) 763
- (d) 723
- (e) 753

Q14. If 33% of the sum of two number is equal to 67% of difference of the same numbers. If sum of same two number equal to 469. Then find out the smaller number?

- (a) 113
- (b) 108
- (c) 111
- (d) 119
- (e) 117

Q15. In how many different ways can the letters of the word 'PRAISE' be arranged?

- (a) 720
- (b) 610
- (c) 360

- (d) 210  
(e) 5040

### Solutions

S1. Ans(d)

Sol. let a man and a women can earn Rs. m and Rs. b per hour

ATQ

$$\frac{(5m+3b) \times 7}{(3m+5b) \times 12} = \frac{4550}{6600}$$

$$\frac{5m+3b}{3m+5b} = \frac{13}{11}$$

$$55m + 33b = 39m + 65b$$

$$16m = 32b$$

$$\frac{m}{b} = \frac{2}{1}$$

Let m and b are 2x and x respectively

Let 2 men and 2 women work d hr to earn Rs.2100

ATQ

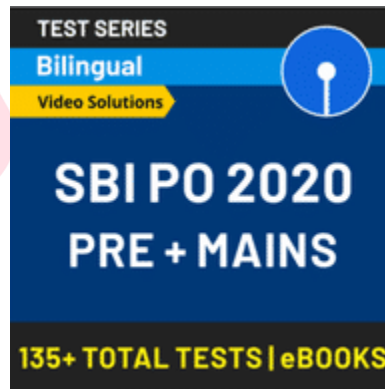
$$\frac{(2 \times m + 2 \times b) \times d}{(5m+3b) \times 7} = \frac{2100}{4550}$$

$$\frac{(2 \times 2x + 2 \times x) \times d}{(5 \times 2x + 3 \times x) \times 7} = \frac{6}{13}$$

$$\frac{6x \times d}{13x \times 7} = \frac{6}{13}$$

$$d = 7 \text{ hr}$$

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S2. Ans.(b)

Sol. Let efficiency of a man is M.

Let time taken by 4 women is 'D' days.

ATQ,

$$6M \times 120 \times 6 = 4 \times \frac{75}{100} \times M \times D \times 8$$

$$D = \frac{6 \times 120 \times 6 \times 100}{4 \times 75 \times 8}$$

$$D = 180 \text{ days}$$

S3. Ans (d)

Sol. volume of slab = volume of cube

Let side of cuboid be a cm.

$$\text{So, } 24 \times 18 \times 4 = a^3$$

$$a = \sqrt[3]{1728} = 12 \text{ cm}$$

$$\begin{aligned} \text{So, total surface area of cuboid} &= 6a^2 = 6 \times 144 \\ &= 864 \text{ cm}^2 \end{aligned}$$

S4. Ans (c)

Sol. Let B invested Rs x.

So, amount invested by A = Rs.(10000 - x)

$$\text{Equivalent rate of interest for A at 10\% C.I.} = 10 + 10 + \frac{10 \times 10}{100} = 21\%$$

ATQ

$$\frac{x \times 12.5 \times 2}{100} - \frac{(10000 - x) \times 21}{100} = 660$$

$$\frac{25x}{100} - \frac{210000 - 21x}{100} = 660$$

$$25x - 210000 + 21x = 66000$$

$$46x = 276000$$

$$x = 6000$$

S5. Ans (a)

Sol. let initial quantity of water and milk be 5x and 8x liters respectively.

$$\text{Quantity of water taken out} = 26 \times \frac{5}{13} = 10 \text{ liters}$$

$$\text{Quantity of milk taken out} = 26 - 10 = 16 \text{ liters}$$

Now, ATQ

$$\frac{5x - 10}{8x - 16 + 26} = \frac{10}{29}$$

$$145x - 290 = 80x + 100$$

$$65x = 390$$

$$x = 6$$

So, quantity of milk in initial mixture = 8x = 48 liters

S6. Ans(c)

Sol. Let ages of A and B be 7x and 5x

A.T.Q

$$\frac{7x - 3}{5x - 3} = \frac{16}{11}$$

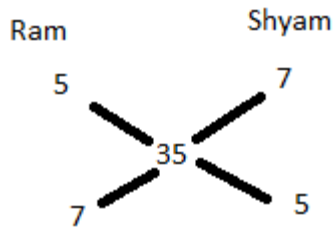
$$X = 5$$

∴ age of B 5 year hence = 5 × 5 + 5 = 30 years

S7. Ans(c)

Sol. Ram and shyam can complete the work in 5 days and 7 days respectively

Let Total work = 35 units



Total work done in 4 days alternatively =  $(7+5) \times 2 = 24$  unit work is done in 4 day  
On 5<sup>th</sup> day ram will complete 7 unit work

$\therefore$  now 4 unit work is remaining that is completed by shyam in  $\frac{4}{5}$  days

$\therefore$  total days to complete the work =  $4 + 1 + \frac{4}{5} = 5\frac{4}{5}$  days

S8. Ans(b)

	A	B
Investment	X	X + 10000
x	x	x
Time( in months)	12	8
	<hr style="width: 50px; margin: 0 auto;"/>	<hr style="width: 50px; margin: 0 auto;"/>
	12X	8X + 80000

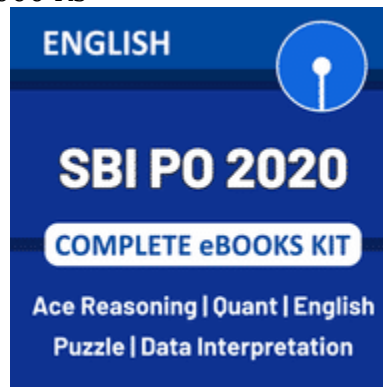
A.T.Q

$$12X = 8X + 80000$$

$$4X = 80000$$

$$X = 20000$$

Investment invested by B = 30000 Rs



S9. Ans(c)

Sol. Let the cost price of article =  $100x$

A.T.Q

$$\text{Marked price} = 100x \times \frac{150}{100} = 150x$$

But seller get only 20 % profit so selling price must be  $120x$

$$\therefore \text{discount percentage} = \frac{30x}{150x} \times 100 = 20\%$$

S10. Ans(c)

$$\text{Sol. Speed of boat} = \frac{\text{speed of upstream} + \text{speed of downstream}}{2} = \frac{18}{2} = 9 \text{ Kmph}$$

$$\therefore \text{A.T.Q speed of stream} = \frac{1}{3} \times 9 = 3$$

$$\text{Required time taken} = \frac{54}{9-3} + \frac{48}{9+3}$$

$$= 13 \text{ hours}$$

S11. Ans (b)

Sol.

$$\text{Average of five number} = \frac{\text{sum of five number}}{5}$$

$$\text{Sum of five number} = 5 \times 27 = 135$$

$$\text{So, sum of first two number} = 2 \times 25 = 50$$

$$\text{And sum of last two number} = 2 \times 30 = 60$$

$$\text{So, third number from starting} = 135 - 50 - 60 = 25$$

S12. Ans (d)

Sol.

$$\text{Share of A} = \frac{3}{7} (\text{share of B} + \text{share of C})$$

$$\frac{\text{Share of A}}{\text{share of B} + \text{share of C}} = \frac{3}{7}$$

ATQ,

$$\text{share of A} = \frac{3}{3+7} \times 14320$$

$$\text{Share of A} = \text{Rs. } 4296$$

S13. Ans (e)

Sol.

Let total number of the tree in the garden =  $x$

ATQ,

Number of apple trees

$$\left(x - \frac{75}{100}x\right) \times \frac{25}{100} = 251$$

$$x = 1004$$

$$\text{So, number of mango trees} = \frac{75}{100} \times 1004$$

$$= 753$$

S14. Ans (d)

Sol.

Let two number are A and B.

ATQ,

$$33\% \text{ of } (A+B) = 67\% \text{ of } (A-B)$$

$$34\%A = 100\%B$$

$$\frac{A}{B} = \frac{50}{17}$$

$$\text{Let } A = 50x$$

And  $B=17x$

ATQ,

$$50x+17x=469$$

$$x=7$$

$$\begin{aligned}\text{Smaller number} &= 17x = 17 \times 7 \\ &= 119\end{aligned}$$

S15. Ans.(a);

Sol. Required number of ways =  $6! = 720$

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