

Quiz Date: 29th May 2020

Q1. A, B and C can do a piece of work in 12, 18 and 24 days respectively, they work at it together, A stops the work after 4 days and B is called off 2 days before the work is done. In what time was the work finished?

- (a) 12 days
- (b) 14 days
- (c) 16 days
- (d) 8 days
- (e) 10 days

Q2. A milkman makes 20% profit by selling milk mixed with water at Rs. 9 per litre. If the cost price of 1 litre pure milk is Rs. 10, then the ratio of milk and water in the said mixture is

- (a) 3 : 1
- (b) 4 : 1
- (c) 3 : 2
- (d) 4 : 3
- (e) 3 : 4

Q3. In a certain time, the ratio of a certain Principle and the simple interest obtained from it are in the ratio 10:3 at 10% interest per annum. The number of years the money was invested is

- (a) 1
- (b) 3
- (c) 5
- (d) 7
- (e) 9

Q4. Two trains start from the station A and B and travel towards each other at speeds of 50 kmph and 60 kmph respectively. At the time of their meeting the second train has traveled 100 km more than the first. The distance between A and B is:

- (a) 990 km
- (b) 1200 km
- (c) 1100 km
- (d) 1440 km
- (e) 1000 km

Q5. A thief is noticed by a policeman from a distance of 200 metre. The thief starts running and the policeman chases him. The thief and the policeman run at the rate of 10 km and 11 km per hour respectively. What is the distance between them after 6 minutes?

- (a) 100 metre
- (b) 190 metre
- (c) 200 metre
- (d) 150 metre

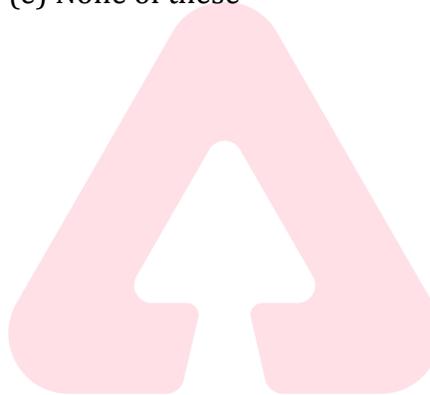
(e) 120 metre

Q6. A shopkeeper bought 80 kg of sugar at the rate of Rs. 13.50 per kg. He mixed it with 120 kg of sugar costing Rs. 16 per kg. In order to make a profit of 20%, he must sell the mixture at

- (a) Rs. 18 per kg
- (b) Rs. 17 per kg
- (c) Rs. 16.40 per kg
- (d) Rs. 15 per kg
- (e) Rs. 14 per kg

Q7. The sum of digits of a two digits number is 15. The number obtained by reversing the order of digits of the given number exceeds the given number by 9. Find the given numbers.

- (a) 87
- (b) 78
- (c) 69
- (d) 96
- (e) None of these



Q8. Flower nectar is processed to extract honeybees. How much flower nectar must be processed to yield 1 kg of pure honey, if nectar contains 70% water, and the honey obtained from this nectar contains 17% water?

- (a) 2.77 kg
- (b) 1.54 kg
- (c) 4.01 kg
- (d) 3.5 kg
- (e) 4.5 kg

Q9. At present Meena is eight times her daughter's age. 8 years from now, the ratio of the age of Meena to her daughter will be 10 : 3. What is Meena's present age?

- (a) 32 years
- (b) 40 years
- (c) 36 years
- (d) 42 years
- (e) 46 years

Q10. Two boats A and B start towards each other from two places, 108 km apart. Speeds of the boats A and B in still water are 12 kmph and 15 kmph respectively. If A proceeds downstream and B upstream, they will meet after.

- (a) 4.5 hours
- (b) 4 hours
- (c) 5.4 hours
- (d) 3.6 hours
- (e) 8.4 hours

Q11. Twelve percent of Kiran's monthly salary is equal to sixteen percent of Namita's monthly salary. Suri's monthly salary is half that of Namita's monthly salary. If Suri's annual salary is Rs. 1.08 lacs, what is Kiran's monthly salary?

- (a) Rs 20,000
- (b) Rs 18,000
- (c) Rs 26,000
- (d) Rs 24,000
- (e) Rs. 22,500

Q12. The interest earned when Rs 'P' is invested for four years in a scheme offering 9% p.a. simple interest is more by Rs 360 than the interest earned when the same sum (Rs P) is invested for two years in another scheme offering 12% p.a. simple interest. What is the value of P?

- (a) Rs 2000
- (b) Rs 3500
- (c) Rs 2500
- (d) Rs 4000
- (e) Rs 3000

Q13. A trader sells an item to a retailer at 20% discount, but charges 10% on the discounted price, for delivery and packaging. The retailer sells it for Rs 2046 more than its cost price, thereby earning a profit of 25%. At what price had the trader marked the item?

- (a) Rs 9400
- (b) RS 9000
- (c) Rs 8000
- (d) Rs 12000
- (e) Rs 9300

Q14. The sum of the circumference of a circle and the perimeter of a square is equal to 272 cm. The diameter of the circle is 56 cm. What is the sum of the areas of the circle and the square?

- (a) 2464 sq cm
- (b) 2644 sq cm
- (c) 3040 sq cm
- (d) 3080 sq cm
- (e) 3240 sq cm

Q15. What is the probability of selecting 2 black balls from a basket containing 5 black and 4 red balls?

- (a) $5/18$
 (b) $7/18$
 (c) $13/18$
 (d) $5/36$
 (e) $11/18$

Solutions

S1. Ans.(d)

Sol.

Let to finish the work d days are required.

$$\begin{array}{l} 6 \text{ --- A --- } 12 \\ 4 \text{ --- B --- } 18 \\ 3 \text{ --- C --- } 24 \end{array} \begin{array}{l} \diagup \\ \diagdown \end{array} 72$$

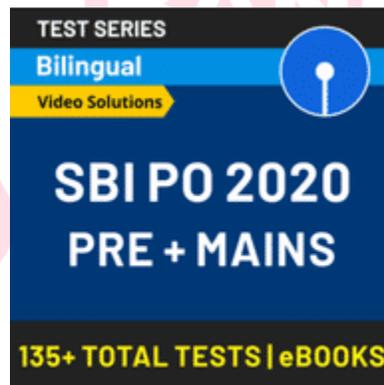
$$6 \times 4 + 4 \times (d - 2) + 3 \times d = 72$$

$$24 + 4d - 8 + 3d = 72$$

$$7d - 8 = 48$$

$$7d = 56$$

$$d = 8 \text{ days}$$



S2. Ans.(a)

Sol.

$$\text{Milk : Water} = K : 1$$

$$\therefore \text{SP} = (K + 1) \times 9$$

$$\text{Gain} = 9 - K$$

$$\text{Gain \%} = \frac{9 - K}{10K} \times 100$$

$$\Rightarrow 90 - 10K = 20K$$

$$\Rightarrow 30K = 90 \Rightarrow K = 3$$

$$\therefore \text{Ratio} = 3 : 1$$

S3. Ans. (b)

Sol.

$$\begin{aligned} \text{Time} &= \frac{SI \times 100}{\text{Principle} \times \text{Rate}} \\ &= \frac{3}{10} \times \frac{100}{10} = 3 \text{ years} \end{aligned}$$

S4. Ans.(c)

Sol.

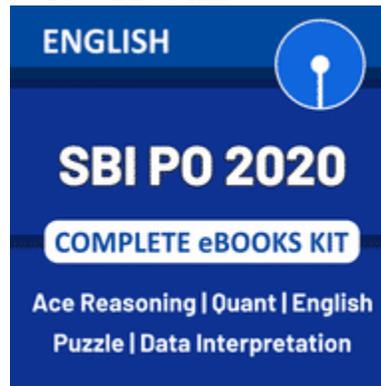
Let distance between A and B is x km.

Let after t hours the trains meet to each other.

$$\therefore 60t - 50t = 100$$

$$\Rightarrow t = 10 \text{ hours}$$

$$\therefore \text{Distance between them} = 110 \times 10 = 1100 \text{ km}$$



S5. Ans.(a)

Sol.

Distance covered by thief in 6 minutes

$$\begin{aligned} &= 10 \times \frac{6}{60} \\ &= 1 \text{ km} \end{aligned}$$

and, policeman will first cover the 200 m and then the remaining distance.

Time taken by policeman to cover 200 m

$$\begin{aligned} &= \frac{200}{1000} \times \frac{1}{11} \\ &= \frac{1}{55} \text{ h} = \frac{60}{55} \text{ min.} = \frac{12}{11} \text{ min} \end{aligned}$$

\therefore Distance between them after 6 minutes

$$\begin{aligned} &= \left(1 - \frac{54}{11} \times \frac{11}{60}\right) \text{ km} \\ &= 100 \text{ m} \end{aligned}$$

S6. Ans.(a)

Sol.

Selling price of mixture of rice per kg

$$\begin{aligned} &= \frac{(80 \times 13.5 + 120 \times 16)}{200} \times \frac{120}{100} \\ &= \frac{3000}{200} \times \frac{120}{100} \\ &= 18 \text{ rupees} \end{aligned}$$

S7. Ans.(b)

Sol.

Let the number is $10x + y$

$$\therefore x + y = 15 \dots(i)$$

and

$$10y + x - 10x - y = 9$$

$$\Rightarrow -x + y = 1 \dots(ii)$$

From (i) and (ii), we get

$$y = 8 \text{ and } x = 7$$

$$\therefore \text{Number is} = 78$$

S8. Ans.(c)

Sol. Equate the amount of honey in nectar and honey, because we need pure honey only and not water.

Let x = amount of nectar to be processed, then

$$x \times \frac{30}{100} \times \frac{83}{100} = 1, \text{ (1kg of pure honey)}$$

$$\Rightarrow x = 4.01 \text{ kg}$$

S9. Ans.(a)

Sol.

Let age of daughter = x years

Age of Meena = $8x$ years

According to the question,

$$\frac{8x+8}{x+8} = \frac{10}{3}$$

$$\Rightarrow 24x + 24 = 10x + 80 \Rightarrow 14x = 56$$

$$\therefore x = 4$$

Hence, Meena's present age = 4×8

$$= 32 \text{ years}$$

S10. Ans.(b)

Sol.

Let the speed of the stream be x kmph and both the boats meet after t hours

According to the question,

$$(12 + x)t + (15 - x)t = 108$$

$$\Rightarrow 12t + 15t = 108 \Rightarrow 27t = 108$$

$$\Rightarrow t = \frac{108}{27} = 4 \text{ hours}$$

S11. Ans.(d)

Sol.

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$$\begin{aligned} \text{Suri's monthly salary} &= 1,08,000 \times \frac{1}{12} \\ &= 9000 \end{aligned}$$

∴ Kiran's monthly salary

$$\begin{aligned} &= \frac{16}{12} \times 18000 \\ &= \text{Rs } 24000 \end{aligned}$$

S12. Ans.(e)

Sol.

$$\begin{aligned} \frac{P \times 9 \times 4}{100} - \frac{P \times 12 \times 2}{100} &= 360 \\ \Rightarrow P &= \frac{36000}{12} \Rightarrow P = 3000 \end{aligned}$$

S13. Ans.(e)

Sol.

Let marked price was Rs. P.

$$\therefore \text{Cost price to retailer} = P \times \frac{80}{100} \times \frac{110}{100} = \frac{88P}{100}$$

Selling price by retailer

$$\begin{aligned} \frac{88P}{100} \times \frac{125}{100} &= \frac{88P}{100} + 2046 \\ \Rightarrow \frac{88P}{100} \times \frac{1}{4} &= 2046 \\ \Rightarrow P &= 9300 \end{aligned}$$

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S14. Ans.(c)

Sol.

Let side of square is a cm

∴ $\pi D + 4a = 272$, where D = Dia. of circle

$$\Rightarrow \frac{22}{7} \times 56 + 4a = 272$$

$$\Rightarrow a = \frac{272 - 176}{4}$$

$$\Rightarrow a = 24 \text{ cm}$$

$$\therefore \text{Required sum} = \frac{\pi}{4} D^2 + a^2$$

$$= \frac{22}{7} \times \frac{1}{4} \times 56 \times 56 + 24^2$$

$$= 2464 + 576$$

$$= 3040 \text{ cm}^2$$

S15. Ans.(a)

Sol.

Required probability

$$\begin{aligned} &= \frac{{}^5C_2}{{}^9C_2} = \frac{5 \times 4}{9 \times 8} \\ &= \frac{5}{18} \end{aligned}$$

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