

Quiz Date: 30<sup>th</sup> March 2020

**Direction (1-5):** Given below in each question there two statements (I) and (II). You have to determine, which statement is sufficient to give the answer of question. Also there are five alternatives given, you have choose one alternative as your answer of the questions:

Q1. What will perimeter of smaller rectangle?

**I.** Ratio between length of smaller and larger rectangle is 4 : 5 and breadth of both rectangle is equal. Difference between perimeter of both rectangle is 8 cm.

**II.** Breadth of both rectangle is equal to side of square, whose area is 196 cm<sup>2</sup>.

- (a) Only statement I is sufficient
- (b) Only statement II is sufficient
- (c) Statement I and II both together sufficient
- (d) Either statement I or Statement II alone sufficient
- (e) Neither statement I or statement II sufficient

Q2. How many Students in college?

**I.** Ratio between girls to boy is 9 : 11.

**II.** Out of total girls in the college 20% are belongs to below eighteen years age group. Total girls belongs to below eighteen years age group are 9% of total students in college

- (a) Only statement I is sufficient
- (b) Only statement II is sufficient
- (c) Statement I and II both together sufficient
- (d) Either statement I or Statement II alone sufficient
- (e) Neither statement I or statement II sufficient

Q3. What was profit of shopkeeper made on article?

**I.** Shopkeeper sold article on 5% discount in the Rs. of 3800.

**II.** If shopkeeper sold article on marked price, he would made a profit of 25%.

- (a) Only statement I is sufficient
- (b) Only statement II is sufficient
- (c) Statement I and II both together sufficient
- (d) Either statement I or Statement II alone sufficient
- (e) Neither statement I or statement II sufficient

Q4. What is speed of boat?

**I.** Speed of boat in still water is two times more that speed of current.

**II.** Boat takes equal time to cover a distance downstream to 50% of that distance upstream.

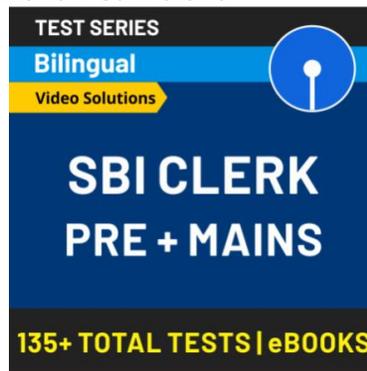
- (a) Only statement I is sufficient
- (b) Only statement II is sufficient
- (c) Statement I and II both
- (d) Either statement I or Statement II alone sufficient
- (e) Neither statement I or statement II sufficient

Q5. Find the amount invested at the rate of 10%?

**I.** Total amount of Rs. 4500 invested in two different parts at the rate of 20% p.a. and 10% p.a. for two years. Simple Interest obtained from both parts are equal.

**II.** A man invested an amount in two schemes A and B in the ratio of 2 : 1 respectively. Scheme A offered simple interest at the rate of 10% p.a. and Scheme B offered compound interest at the rate of 20% p.a. and man got a total interest of Rs. 1260 after two years from both scheme. Amount invested on SI is same as amount invested at the rate of 10% in statement **I**?

- (a) Only statement I is sufficient
- (b) Only statement II is sufficient
- (c) Statement I and II both
- (d) Either statement I or Statement II alone sufficient
- (e) Neither statement I or statement II sufficient



**Directions (6-10):** What approximate value should come in place of question mark (?) in the following question?

Note:- (you are not expected to calculate the exact value.)

Q6.  $23.99 \times 26.003 + \frac{\sqrt{48.97} \times 13.05}{90.98} = 4.97 \times ?^3$

- (a) 1
- (b) 17
- (c) 5
- (d) 12
- (e) 8

Q7.  $109.07\sqrt{?} - \frac{61}{21.02} \times ? = 47.96\sqrt{?}$

- (a) 441
- (b) 169
- (c) 250
- (d) 121
- (e) 324

Q8.  $1332.89 + 171.928 + 17.01 + ?^2 = 1690.87$

- (a) 27
- (b) 17
- (c) 9
- (d) 13

(e) 19

Q9.  $150.09\% \text{ of } 20 + \frac{322.9}{17.02} + \sqrt{7} = (8.96)^2$

- (a) 984  
 (b) 1024  
 (c) 1360  
 (d) 1225  
 (e) 674

Q10.  $56.08\% \text{ of } 149.92 + \sqrt{28.02 \times 6.98} - 11\frac{1}{9}\% \text{ of } 998.9 = ?$

- (a) 17  
 (b) -13  
 (c) 8  
 (d) -16  
 (e) 22

**Directions (11-15):** The following questions are accompanied by two statements (I) and (II). You have to determine which statements(s) is/are sufficient/necessary to answer the questions.

(a) Statement (I) alone is sufficient to answer the question but statement (II) alone is not sufficient to answer the questions.

(b) Statement (II) alone is sufficient to answer the question but statement (I) alone is not sufficient to answer the question.

(c) Both the statements taken together are necessary to answer the questions, but neither of the statements alone is sufficient to answer the question.

(d) Either statement (I) or statement (II) by itself is sufficient to answer the question.

(e) Statements (I) and (II) taken together are not sufficient to answer the question.

Q11. Ratio between length of two trains is 4 : 3. What will be difference between lengths of both trains?

I. Speed of larger trains and smaller train is 72 km/hr and 90 km/hr respectively. Both trains cross each other in  $\frac{28}{3}$  sec, when running in opposite direction.

II. Speed of smaller train is 90 km/hr and it can cross a pole in 7.2 sec.

Q12. There are three men P, Q and R. Find the difference between time taken by P & Q together to complete a task and time taken by Q & R together to complete the same task?

I. 'R' takes twice as much time as 'Q' and thrice as much time as 'P' takes alone.

II. If they all three works together work will be completed in 4 days.

Q13. Satish sold an article to Ayush at 20% profit. If Ayush purchased article from Satish in Rs. 1440, then find the profit percentage of Veer if Satish bought this article form Veer?

I. Veer sold the article on Rs. 240 more than its cost price to Satish.

II. If Veer sold article to Ayush on same price as Satish sold to Ayush, then he made overall profit of 50%.

Q14. If  $x : y = 11 : 9$  and  $y : z = 3 : 4$ , then find  $(x + y) - 1.5z = ?$

I. Average of all three is two more than average of  $x$  and  $y$ .

II. Sum of  $9\frac{1}{11}\%$  of  $x$  and  $11\frac{1}{9}\%$  of  $y$  is equal to  $(36)^{0.5}$ .

Q15. Ratio between length and breadth of rectangle 'X' is  $7 : 4$ . Find area of a square 'Y'?

I. length of rectangle 'X' is two times of radius of circle, whose area is  $616 \text{ cm}^2$ .

II. Perimeter of rectangle 'X' is 20 cm more than perimeter of square 'Y'.

### Solutions

S1. Ans. (c)

Sol.

**From I.**

Lets length of larger rectangle and smaller rectangle be  $5x$  and  $4x$  respectively.

$$2(5x+b) - 2(4x+b) = 8$$

**Form II.**

Breadth of rectangle = side of square

Side of square = 14 cm

From I & II we get

$$10x - 8x = 8$$

$$x = 4 \text{ cm}$$

perimeter of smaller rectangle

$$= 2(4 \times 4 + 14)$$

$$= 60 \text{ cm}$$

So, I and II both together sufficient to give answer

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S2. Ans. (e)

Sol.

**From I,**

Lets number of girls and boys be  $9x$  and  $11x$  respectively

**From II,**

Let total students  $100x$

Girls below eighteen years group

$$= 100x \times \frac{9}{100}$$

$$= 9x$$

$$\text{Given } \frac{9x}{20} \times 100$$

$$= 45x$$

$$\text{Boys : girl} = (100x - 45x) : 45x$$

$$= 11 : 9$$

From I and II we get same equation but we cont mode and answer

So, Neither I nor II both sufficient to give answer of question.

S3. Ans. (c)

Sol.

**Form I,**

Selling price of article = 3800 Rs.

$$\text{Marked price of article} = \frac{3800}{95} \times 100$$

$$= 4000$$

**From II**

$$\text{Cost price} = \frac{4000}{125} \times 100$$

$$= 3200$$

From I & II

$$\text{Profit of shopkeeper} = 3800 - 3200 = 600 \text{ Rs.}$$

S4. Ans. (e)

Sol.

**From I,**

Let speed of boat in still water  $x$  km/hr and speed of current  $y$  km/hr

$$x = 3y \dots (1)$$

**From II,**

Let boat cover 'd' distance downstream and  $\frac{d}{2}$  distance in upstream

$$\frac{d}{3y+y} = \frac{\frac{d}{2}}{3y-y}$$

$$\frac{1}{4y} = \frac{1}{4y}$$

So, From I & II both not sufficient to mode answer of the question-

S5. Ans. (d)

Sol.

**From I,**

Let amount invested on 20% is  $x$  Rs and on 10% is  $(4500-x)$  Rs.

$$\frac{x \times 20 \times 2}{100} = \frac{(4500-x) \times 2 \times 10}{100}$$

$$40x = 90000 - 20x$$

$$60x = 90000$$

$$x = 1500 \text{ Rs.}$$

amount invested on 10% = (4500-1500) = 3000 Rs.

**From II,**

Lets man invested Rs 3x

$$\begin{aligned} \text{Equivalent CI of two years on } 20\% &= 20 + 20 + \frac{20 \times 20}{100} \\ &= 44\% \end{aligned}$$

ATQ -

$$2x \times \frac{20}{100} + x \times \frac{44}{100} = 1260$$

$$108x = 126000$$

$$x = 1500 \text{ Rs.}$$

Amount invested on 10% =  $2 \times 1500 = 3000 \text{ Rs.}$

So, Either statement I alone or statement II alone sufficient is to give answer of question

S6. Ans.(c)

Sol.

$$23.99 \times 26.003 + \frac{\sqrt{48.97} \times 13.05}{90.98} = 4.97 \times ?^3$$

$$24 \times 26 + \frac{\sqrt{49} \times 13}{91} = 5 \times ?^3$$

$$624 + 1 = 5 \times ?^3$$

$$? = 5$$

S7. Ans.(a)

Sol.

$$109.07\sqrt{?} - \frac{61}{21.02} \times ? = 47.96\sqrt{?}$$

$$109\sqrt{?} - 48\sqrt{?} \approx \frac{61}{21} \times ?$$

$$61\sqrt{?} = \frac{61}{21} \times ?$$

$$? = 441$$

S8. Ans.(d)

Sol.

$$1332.89 + 171.928 + 17.01 + ?^2 = 1690.67$$

$$1333 + 172 + 17 - 1691 \approx -?^2$$

$$?^2 = 169$$

$$? = 13$$

S9. Ans.(b)

Sol.

$$150.09\% \text{ of } 20 + \frac{322.9}{17.02} + \sqrt{?} = (8.96)^2$$

$$30 + 19 + \sqrt{?} = 81$$

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$$? = 1024$$

S10. Ans.(b)

Sol.

$$56.08\% \text{ of } 149.92 + \sqrt{28.02 \times 6.98} - 11\frac{1}{9}\% \text{ of } 998.9 = ?$$

$$56\% \text{ of } 150 + \sqrt{28 \times 7} - \frac{1}{9} \times 999 \approx ?$$

$$84 + 14 - 111 = -13$$

S11. Ans(d)

Sol.

Let length of two trains be  $4x$  meter and  $3x$  meter

**From I,**

$$(90 + 72) \times \frac{5}{18} = \frac{(4x+3x)3}{28}$$

$$21x = 1260$$

$$x = 60 \text{ meters}$$

$$\text{Required difference} = 60 \times 4 - 60 \times 3 = 60 \text{ meters}$$

**From II,**

$$90 \times \frac{5}{18} = \frac{3x}{7.2}$$

$$3x = 180 \text{ meters}$$

$$\text{Length of larger train} = 4x = \frac{180}{3} \times 4 = 240$$

$$\text{Required difference} = 60 \text{ meters}$$

So, either I or II alone sufficient to give answer of question.



S12. Ans(c)

Sol.

**From I and II together**

Let P, Q and R takes  $2x$  days,  $3x$  days and  $6x$  days respectively

So efficiency of P, Q and R is  $3x$ ,  $2x$  and  $x$  unit/day

$$\begin{aligned} \text{Total work} &= 4 \times (3x + 2x + x) \\ &= 24x \end{aligned}$$

So, we can determine required difference with I and II together

S13. Ans(d)

Sol.

$$\begin{aligned} \text{Given, Cost price of article for Satish} &= \frac{1440}{120} \times 100 \\ &= 1200 \text{ Rs.} \end{aligned}$$

**From I,**

$$\begin{aligned} \text{Cost price of article for Veer} &= 1200 - 240 \\ &= 960 \text{ Rs.} \end{aligned}$$

$$\text{Profit percentage of Veer} = \frac{240}{960} \times 100 = 25\%$$

**From II,**

$$\begin{aligned} \text{Cost price of article for Veer} &= 1440 \times \frac{100}{150} \\ &= 960 \end{aligned}$$

$$\begin{aligned} \text{Veer profit percentage} &= \frac{1200-960}{960} \times 100 \\ &= 25\% \end{aligned}$$

So, either I or II alone sufficient to give answer of question.

S14. Ans(d)

Sol.

$$x : y : z = 11 : 9 : 12$$

Let x, y and z be 11a, 9a and 12a respectively

**From I,**

$$\frac{11a+9a+12a}{3} - \frac{11a+9a}{2} = 2$$

$$\frac{32a}{3} - 10a = 2$$

$$a = 3$$

So,

$$\begin{aligned} (x + y) - 1.5z &= (11 \times 3 + 9 \times 3) - 1.5 \times 3 \times 12 \\ &= 6 \end{aligned}$$

**From II,**

$$11a \times \frac{1}{11} + 9a \times \frac{1}{9} = (6^2)^{0.5}$$

$$2a = 6$$

$$a = 3$$

So, we can determine  $(x + y) - 1.5z$  from II also

So, Either statement I or Statement II alone sufficient

S15. Ans(c)

Sol.

Let length and breadth of rectangle be 7x and 4x respectively

**From I,**

$$\text{Given, } \pi r^2 = 616$$

$$r^2 = \frac{616 \times 7}{22}$$

$$r = 14 \text{ cm}$$

$$\text{length of rectangle} = 14 \times 2 = 28 \text{ cm}$$

$$\text{breadth of rectangle} = \frac{28}{7} \times 4 = 16 \text{ cm}$$

**From I and II together,**

$$2(l + b) - 4a = 20$$

$$2(28 + 16) - 4a = 20$$

$$4a = 88 - 20$$

$$a = 17 \text{ cm}$$

$$\begin{aligned} \text{area of Square} &= (17)^2 \\ &= 289 \text{ cm}^2 \end{aligned}$$

So, Statement I and II both together sufficient

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