Quiz Date: 4th September 2020

Directions (1-4): 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.

Q1. A man has invested some amount at Simple Interest. Ratio of numerical value of rate of interest and time period is 5 : 2. Find rate of interest ?
I. Man get 22.5% of his invested amount as interest.
II. Ankit invested Rs. 2400 and get Rs. 540 as interest.

Q2. A 280 ml juice pack contains mixture of Mango juice and orange juice. Find what quantity of mango juice taken out from pack initially?
I . Mixture contains Mango juice and orange juice in the ratio of 9 : 5
 II . If x ml juice taken out from pack and 20 ml of orange juice mixed in pack so new ratio of Mango juice and orange juice become 7 : 5

Q3. The ratio between length of two trains is 3 : 4 and their speed are 72 km/hr and 54 km/hr respectively. Time taken by longer train to cross platform 'P' ?
I. If both train running in same direction cross each other in 42 sec.
II. faster train cross platform 'P' in 13.5 sec.

Q4. Rs. 4036.5 distributed among A, B and C. Find share of 'B'?
I. Share of C is 20% more than share of A, while share of A is 10 time of B.
II. Share of A is 6 ⅔% less than that of C, while share of B is Rs. 1579.5 less than that of share of C.

Direction (5-8): Given below in each question there are 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:

Q5. What is length of rectangle?
I . Ratio between radius & height of cylinder is 7 : 6 and breadth of rectangle is equal to height of cylinder. Volume of cylinder is 7392 cm^3 and perimeter of rectangle is 80 cm.
II. Length of rectangle is two times of side of square, of area 196 cm^2.
(a) Only statement I is sufficient
(b) Only statement II is sufficient
(c) Statement I and II both together are required

(d) Either statement I or Statement II alone sufficient
(e) Neither statement I or statement II sufficient

Q6. A bag contains seven red, 'y' blue & 'x' yellow balls. How many total blue & yellow balls together?

I . One ball is drawn from bag, probability of being that ball blue is $\frac{1}{4}$.

II . One ball is drawn from bag, probability of being that ball yellow is $\frac{2}{5}$.

(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

Q7. Ratio of speed of two train is 4 : 5 and length of faster train & slower train is 120 m & 160 m respectively. Find difference between speeds of two trains (in km/hr)?

I . If both train running in opposite direction passed each other in $\frac{56}{9} sec$.

II. Faster train crosses a man running in opposite direction at speed of 9 km/hr in $\frac{24}{5.5}$ sec.

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

Q8. What profit shopkeeper made on article?
I . Shopkeeper sold article on 5% discount at Rs.7600.
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 are required
(d) Either statement I or Statement II alone sufficient
(e) Neither statement I or statement II sufficient

Directions (9-10): What approximate value will come in place of question mark (?) in the given questions: (You are not expected to calculate the exact value.)

Q9. 619.992 – 134.99 ÷ 14.998 – (9.01)^2 =?
(a) 720
(b) 530
(c) 650
(d) 690
(e) 490

Q10. 449.97 ÷ 15.02 + 208.08 ÷ 8.01 – 16.01 =?
(a) 120

(b) 60
(c) 100
(d) 80
(e) 40

Solutions

S1. Ans.(d)
Sol.
Let rate of interest and time period be 5x and 2x respectively.
And man invested Rs. 100
From I —
$$\frac{100 \times 5x \times 2x}{100} = \frac{22.5}{100} \times 100$$
x = 1.5
Rate of interest = 1.5 × 5 = 7.5%

From II—
$$\frac{2400 \times 5x \times 2x}{100} = 540$$
240x² = 540
x² = 2.25
x = 1.5
Rate of interest of 1.5 × 5 = 7.5%
So, Either from I or II we can get answer of the question.

S2. Ans(c)
Sol.
From I & II Together −
Mango juice in mixture $= 280 \times \frac{9}{(9+5)} = 180 \ ml$
Orange juice in mixture $= 280 \times \frac{5}{(9+5)}$
= 100 ml
$$= \frac{180 - \frac{9x}{14}}{100 - \frac{5x}{14} + 20} = \frac{7}{5}$$
5(2520 – 9x) = 7(1400 – 5x + 280)
45x – 35x = 12600 – 11760
10x = 840
x = 84 ml
Quantity of mango juice taken out from pack initially $= 84 \times \frac{9}{14} = 54ml$
So, I & II together required to give answer of the question.

S3. Ans.(c)
Sol.
Let length of two train be 3L & 4L respectively.
From I—

$(72- 54) \times \frac{5}{18} = \frac{3L+4L}{42}$

$210 = 7L$

$L = 30 \ M$

From II—

$72 \times \frac{5}{18} = \frac{3 \times 30 + P}{13.5}$

$270 = 90 + P$

$P = 180$

From I & II—

Let longe.5r train take 't' sec to cross platform 'r'

$54 \times \frac{5}{18} = \frac{120 + 180}{t}$

$15t = 300$

$t = 20 \ sec$

So, I and II together required to given answer of the question.

S4. Ans.(d)

Sol.

From I –

Let share of B = x Rs.

So, share of A = 10x Rs.

Share of C = $10x \times \frac{120}{100} = 12x$

Share of B = $\frac{4036.5}{23}$ = 175.5 Rs.

From II—

Let share of C = Rs. x

So, share of A = $x - \frac{20}{300}x = \frac{14}{15}x$

Share of B = (x – 1579.5)

$x + \frac{14}{15}x + (x - 1579.5) = 4036.5$

$\frac{44}{15}x = 5616$

$x = 1914.5$

Share of B = (1914.5 – 1579.5) = Rs. 335

So, either I or II alone sufficient to give answer

S5. Ans(d)

Sol.

From I –

Let radius & height of cylinder is 7x and 6x respectively

ATQ –

$\frac{22}{7} \times 49x^2 \times 6x = 7392$

$x = 2 \ cm$

Breadth of rectangle = $2 \times 6 = 12 \ cm$

Given, 2(L + 12) = 80

         $L = 40 - 12$

         $L = 28 \ cm$

From II –
Side of square = a cm
Given, a² = 196
        a = 14 cm
Length of rectangle = $14 \times 2 = 28\ cm$
So, either from statement I or statement II we can determine the answer

S6. Ans(c)
Sol.
Total number of balls in the bag = (7 + y + x)
From I –
$\frac{y}{(7 + y + x)} = \frac{1}{4}$
$- x + 3y = 7$ --------- (i)
From II –
$\frac{x}{(7 + y + x)} = \frac{2}{5}$
$3x - 2y = 14$ ------- (ii)
From (I) & (II) –
x = 8 , y = 5
Total blue & yellow balls in bag = 8 + 5 = 13
So, statement I and statement II together are required to answered the question

S7. Ans(d)
Sol.
Let speed of two trains be 4x m/s & 5x m/s respectively
From I –
$\frac{(120+160)}{9x} = \frac{56}{9}$
x = 5
Required difference = $(5 \times 5) \times \frac{18}{5} - (5 \times 4) \times \frac{18}{5} = 90 - 72 = 18\ km/hr$
From II –
$\frac{120}{5x+\frac{5}{2}} = \frac{240}{55}$
x = 5 m/s
Required difference = $(5 \times 5) \times \frac{18}{5} - (5 \times 4) \times \frac{18}{5} = 90 - 72 = 18\ km/hr$
So, either from statement I or statement II we can determine the answer

S8. Ans(c)
Sol.
Form I –
Selling price of article = 7600 Rs.
Marked price of article = $\frac{7600}{95} \times 100$
= 8000 Rs.
From II –

Cost price = $\frac{8000}{125 \times 100}$

= Rs 6400

From I & II –

Profit of shopkeeper = 7600 – 6400 = 1200 Rs.

So, statement I and statement II together required to answered the question

S9. Ans.(b)

Sol.

? = 619.992 – 134.99 ÷ 14.998 – $(9.01)^2 \approx 620 - 135 \div 15 - (9)^2 \approx 530$

S10. Ans.(e)

Sol.

? = 449.97 ÷ 15.2 + 208.08 ÷ 8.01 – 16.01 ≈ 450 ÷ 15 + 208 ÷ 8 – 16

= 30 + 26 – 16 = 30 + 10 = 40

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