

Quiz Date: 5th March 2020

Directions (1-10): The following questions are accompanied by three statements (A) or (I), (B) or (II), and (C) or (III). You have to determine which statements(s) is/are sufficient/necessary to answer the questions.

Q1. What is the value of a two-digit number in which digit at tens place is greater than digit at unit place?

- A. The sum of the digits is 5.
- B. The difference of the squares of the digits is 15.
- C. The difference of their digits is 3.
- (a) A and B together are sufficient
- (b) B and C together are sufficient
- (c) C and A together are sufficient
- (d) Any one pair of A and B, B and C or C and A is sufficient
- (e) A, B and C together are necessary

Q2. What is the rate of interest?

- A. The compound interest at this rate on Rs 2500 in 2 years is equal to the simple interest in 3 years of Rs $1716\frac{2}{3}$ at the same rate.
- B. The total simple interest on an investment of Rs 12000 for 3 yrs and Rs 10000 for 5 yrs at this rate is Rs 5160.
- C. In 3 years Rs 1500 at the same rate becomes Rs 1770 by simple interest.
- (a) Any of them
- (b) A and either B or C
- (c) Only C
- (d) Only A and either B or C
- (e) Any two of them

Q3. A person travels from X to Y and back again. How long will it take in travelling both the ways by bus?

- A. It takes 21 hours in travelling from X to Y by train and returning by bus.
- B. The distance between X and Y is 648 km.

C. A person can save 3 hours if he travels both the ways by train as compared to travelling by bus on the one side and returning by train.

- (a) Only A and C together
- (b) B and either A or C
- (c) Any two of them
- (d) All statements are necessary
- (e) Question can't be answered even after using all the information

Q4. What is the age of the Rakhi?

I. Total age of Rakhi, her father, her mother & her brother is 90 years.

II. Average age of Rakhi, her mother and her brother is 18 years and 4 months.

III. Average age of her mother and brother is four seventh of her father's age.

- (a) Only I & II
- (b) Only I & III
- (c) Only II & III
- (d) All I, II & III
- (e) None of these



Q5. What is the selling price of the almirah if no discount is offered?

I. Profit earned was 20% when no discount offered.

II. Had 10% discount been offered on marked price the profit would have been Rs. 1200.

III. Cost price of almirah is Rs. 15000.

- (a) Any two of the three
- (b) Only I & II
- (c) Only I & III
- (d) Only II & III
- (e) None of these

Q6. What is distance between A and B ?

I. Two persons Bhavya and Harish started simultaneously from P to Q with their speed in ratio 4 : 5.

II. Harish reached Q one hour earlier than Bhavya.

III. Difference between speed of Bhavya and Harish is 20 km/hr.

(a) Only I and II.

(b) Only II and III

(c) All I, II and III

(d) Cannot be answered even including all three statement

(e) None of these

Q7. What is the area of rectangle ?

I. If ratio of length and breadth of the rectangle is 3 : 2.

II. Circumference of a circle is 440 m and breadth of rectangle is $\frac{1}{7}$ th of diameter of circle.

III. If length is 50% more than breadth.

(a) Only III

(b) Only II and either I or III.

(c) Only II

(d) All I, II and III

(e) None of these

Q8. How many students failed in class 11th ?

I. 400 Students passed in class 11th.

II. No. of students failed in class 11th is 20% of those failed in class 12th.

III. Ratio of student appeared to that of failed in class 11th is 5 : 3.

(a) Only I and III

(b) Only II

(c) Only I and II

(d) All I, II and III

(e) Cannot be answered even including all three statement

Q9. What is the rate of interest on some amount?

I. S.I. received in two years on same amount at same rate of interest is Rs. 44000.

II. The amount after some years on S.I. is Rs. 154000.

III. Difference between the C.I. and S.I. earned in two years on the same amount invested is Rs. 120.

(a) Only I and III

(b) Only III

(c) Only II and III

(d) Cannot be answered even including all statement

(e) None of these

Q10. What is the sum of two number?

I. The bigger no. is 6 more than the smaller no.

II. 40% of smaller no. is equal to 30% of bigger no.

III. The ratio b/w half of the bigger no. & one-third of smaller no. is 2 : 1.

(a) Only II & III

(b) Only I & II

(c) Any two of the three statement

(d) All statement is required

(e) From I and either II or III

Directions (11-15): In the following number series only one number is wrong. Find out the wrong number.

Q11. 36 54 18 27 9 18.5 4.5

(a) 4.5

(b) 18.5

(c) 54

(d) 18

(e) 27

Q12. 6, 91, 584, 2935, 11756, 35277, 70558

(a) 6

(b) 70558

(c) 584

(d) 2935

(e) 35277

Q13. 8424, 4212, 2106, 1051, 526.5, 263.25, 131.625

- (a) 526.5
- (b) 1051
- (c) 4212
- (d) 8424
- (e) 263.25

Q14. 8.1, 9.2, 17.3, 26.5, 43.8, 71.5, 114.1

- (a) 17.3
- (b) 26.5
- (c) 43.8
- (d) 9.2
- (e) 71.5



Q15. 4, 10, 22, 46, 96, 190, 382

- (a) 4
- (b) 10
- (c) 96
- (d) 382
- (e) 22

Solutions

S1. Ans.(d)

Sol.

From I, $x + y = 5$

$$x^2 - y^2 = 15$$

$$x - y = 3$$

To determine the no. any two statements are necessary.

S2. Ans.(a)

Sol.

Let the rate of interest be $r\%$

$$A. 2500 \left[\left(1 + \frac{r}{100} \right)^2 - 1 \right] = \frac{5150}{3} \times r \times \frac{3}{100}$$

$$B. 12000 \times r \times \frac{3}{100} + 10000 \times r \times \frac{5}{100} = 5160$$

$$C. r = \frac{1770 - 1500}{3 \times 1500} \times 100 = 6\%$$

Hence, any one of them is sufficient.

S3. Ans.(a)

Sol.

From statements (A) and (C),

The person will take $(21 - 3)$ 18 hrs, if he travels both the ways by train. So, it takes $\left(\frac{18}{2} = 9\right)$ hrs if he travels one way by train. Hence, he will take $(9 + 3)$ 12 hrs if he travels one way by bus.

So, Required time = $12 \times 2 = 24$ hrs.

S4. Ans.(d)

Sol.

Let present age of Rakhi, her father, her mother and her brother be R, F, M and B respectively.

$$\text{From I, } R + F + M + B = 90$$

$$\text{From II, } R + M + B = 18 \frac{1}{3} \times 3$$

$$\text{From III, } M + B = \frac{4}{7} \times 2F$$

From all three statements together, the answer can be obtained.

S5. Ans.(a)

Sol. From I & II,

Let CP = x

$$S.P = \frac{6x}{5}$$

$$\text{Now, New S.P} = \frac{6x}{5} \times \frac{90}{100} = \frac{54x}{50}$$

$$\Rightarrow \frac{54x}{50} - x = 1200$$

$$\Rightarrow x = 15000$$

$$\therefore SP. = 18000$$

& from III & I, we can obtain selling price.

& from II & III,

Let S.P. = x

When 10% discount,

$$S.P. = \frac{9x}{10}$$

$$\therefore \frac{9x}{10} - 15000 = 1200$$

$$\Rightarrow x = 18000$$

Thus, any two of the three statements are required.

S6. Ans.(c)

Sol.

From I, II & III

Let speed of Bhavya and Harish be 4x and 5x km/hr respectively.

$$5x - 4x = 20$$

$$\therefore x = 20 \text{ km/hr}$$

Let distance be d km

$$\frac{d}{80} - \frac{d}{100} = 1$$

$$\therefore d = \frac{80 \times 100}{20} = 400 \text{ km}$$

S7. Ans.(b)

Sol.

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From I and II

Let length and breadth be $3x$ and $2x$

$$2\pi r = 440 \quad [r \rightarrow \text{radius of circle}]$$

$$r = 70 \text{ m}$$

$$\therefore \text{breadth} = 10 \text{ m}$$

$$\& \text{ length} = 15 \text{ m}$$

$$\therefore \text{Area} = 10 \times 15 = 150 \text{ m}^2$$

Statement I and III are same.

S8. Ans.(a)

Sol.

From I

$$\text{Passed} = 400$$

From III

Let appeared & Passed student be $5x$ and $3x$ respectively

$$2x = 400 \Rightarrow x = 200$$

$$\therefore \text{failed} = \text{appeared} - \text{passed}$$

$$= 1000 - 400$$

$$= 600$$

S9. Ans.(a)

Sol.

From I

$$\frac{\text{PRT}(2)}{100} = 44000$$

$$\text{PR} = 2200000$$

From II

$$P + \frac{\text{PRT}}{100} = 15400$$

From III

$$\text{Difference} = \frac{PR^2}{100^2}$$

$$\frac{PR^2}{100^2} = 120$$

From I and III R can be found.

S10. Ans.(e)

Sol.

Let the smaller no. is x & bigger no. is y.

From I

$$Y = x + 6$$

From II,

$$\frac{40}{100} \times x = \frac{30}{100} \times y$$

From III,

$$\frac{y}{x} = \frac{2}{1}$$

$$\Rightarrow 3y = 4x$$

∴ from I and II or I and III

S11. Ans.(b)

Sol. Pattern of series is-

$$36 \times 1.5 = 54$$

$$54 \div 3 = 18$$

$$18 \times 1.5 = 27$$

$$27 \div 3 = 9$$

$$9 \times 1.5 = 13.5 \neq 18.5$$

$$13.5 \div 3 = 4.5$$

S12. Ans.(c)

Sol.

The pattern of the number series is :

$$6 \times 7 + 7^2 = 42 + 49 = 91$$

$$91 \times 6 + 6^2 = 546 + 36 = 582, \text{ not } 584$$

$$582 \times 5 + 5^2 = 2910 + 25 = 2935$$

$$2935 \times 4 + 4^2 = 11740 + 16 = 11756$$

$$11756 \times 3 + 3^2 = 35268 + 9 = 35277$$

S13. Ans.(b)

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Sol.

The pattern of the number series is :

$$8424 / 2 = 4212$$

$$4212 / 2 = 2106$$

$$2106 / 2 = 1053 \text{ Not } 1051$$

$$1053 / 2 = 526.5$$

$$526.5 / 2 = 263.25$$



S14. Ans.(e)

Sol.

$$8.1 + 9.2 = 17.3$$

$$17.3 + 9.2 = 26.5$$

$$26.5 + 17.3 = 43.8$$

$$43.8 + 26.5 = 70.3 \text{ Not } 71.5$$

$$70.3 + 43.8 = 114.1$$

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S15. Ans.(c)

Sol.

$$4 \times 2 + 2 = 10$$

$$10 \times 2 + 2 = 22$$

$$22 \times 2 + 2 = 46$$

$$46 \times 2 + 2 = 94 \text{ Not } 96$$

$$94 \times 2 + 2 = 190$$

$$190 \times 2 + 2 = 382$$

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