

Quiz Date: 21st August 2020

Directions (1-5): In the following questions two quantities are given in each question. Compare the numeric value of both the quantities and answers accordingly

Q1.

Quantity I – Value of R. A man invested Rs. 5400 at the rate of R% p.a. on simple interest and get Rs. 2025 as interest after $2\frac{1}{2}$ years.

Quantity II – Value of X, Ram invested Rs. 6400 on compound interest at the rate of X% and gets an amount of Rs. 8464 as interest after two years.

- (a) Quantity I > Quantity II
- (b) Quantity I < Quantity II
- (c) Quantity I \geq Quantity II
- (d) Quantity I \leq Quantity II
- (e) Quantity I = Quantity II or no relation

Q2.

Quantity I: Simple interest earned in three years at same rate. Difference between CI and SI for two years is 125 which is 25% of the amount invested.

Quantity II: Rs. 725

- (a) Quantity I > Quantity II
- (b) Quantity II > Quantity I
- (c) Quantity I \geq Quantity II
- (d) Quantity II \geq Quantity I
- (e) Quantity I = Quantity II or relation can't be established

Q3. Speed of train A is 72 km/hr whose length is half of length of a platform & crosses the platform in 12 sec.

Quantity I: 30% of sum of length of train A and length of platform.

Quantity II: Length of train B which travel with 50% of speed of train A and crosses the train A in 10 sec when coming from opposite direction.

- (a) Quantity I > Quantity II
- (b) Quantity II > Quantity I
- (c) Quantity I \geq Quantity II
- (d) Quantity II \geq Quantity I
- (e) Quantity I = Quantity II or relation can't be established

Q4. **Quantity I:** Number of ways in which a four-digit number can be formed from digits 0, 1, 2, 4, 5, 6. If repetition allowed.

Quantity II: No. of ways in which the letters of word 'ABHISHEK' be arranged so that both 'H' never comes together.

- (a) Quantity I > Quantity II
- (b) Quantity II > Quantity I
- (c) Quantity I \geq Quantity II
- (d) Quantity II \geq Quantity I

(e) Quantity I = Quantity II or relation can't be established

Q5. **Quantity I** : Speed of faster trains(km/hr). Ratio of speed of two train is 5 : 7 and length of two trains is 120 m & 160 m respectively. Faster train crosses slower train in 28 sec if running in same direction.

Quantity II : Speed of Car(km/hr).. Distance between two cities A & B is 630 km. A car starts from city A towards city B with usual speed and after covering $\frac{1}{3}$ rd of distance, speed of car increased by 25% and its take 1 hours 20 minutes less than what its take at its usual speed.

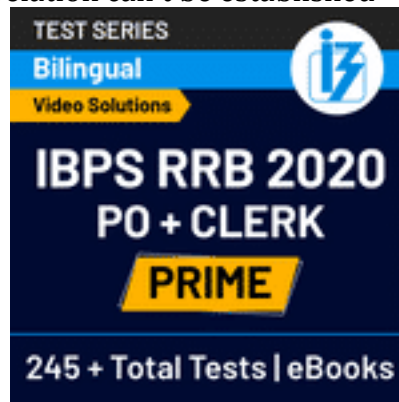
(a) Quantity I > Quantity II

(b) Quantity II > Quantity I

(c) Quantity I \geq Quantity II

(d) Quantity II \geq Quantity I

(e) Quantity I = Quantity II or relation can't be established



Directions (6-15): What will come in place of question mark (?) in the following number series?

Q6. 1.001, 0.991, 0.971, 0.941, 0.901 ?

(a) 0.841

(b) 0.851

(c) 0.861

(d) 0.871

(e) 0.0851

Q7. 169, ?, 361, 529, 841, 961

(a) 196

(b) 225

(c) 250

(d) 289

(e) 324

Q8. 0, 4, 18, 48, ?, 180

(a) 48

(b) 60

- (c) 100
- (d) 50
- (e) 120

Q9. 3645, 1215, 405, 135, ?, 15, 5

- (a) 75
- (b) 45
- (c) 65
- (d) 55
- (e) 27

Q10. 15, 30, ?, 40, 8, 48

- (a) 10
- (b) 20
- (c) 18
- (d) 12
- (e) 60

Q11. 53, 51.4, 48.2, 41.8, ?, 3.4

- (a) 31
- (b) 30
- (c) 29
- (d) 29.4
- (e) 29.6

Q12. 6, 4, 5, 11, ?, 189

- (a) 39
- (b) 45
- (c) 34
- (d) 36
- (e) 41

Q13. 80, 68, 62, 56, ?, 29

- (a) 43
- (b) 44
- (c) 45
- (d) 46
- (e) 47

Q14. 117, 140, 169, 200, ?, 278

- (a) 235
- (b) 237
- (c) 239
- (d) 241
- (e) 243



BANKERS

adda247

Q15. ?, 8, 14, 38, 98, 218

- (a) 2
(b) 6
(c) 10
(d) 8
(e) 4

Solutions

S1. Ans(e)

Sol.

Quantity I -

$$S.I = \frac{P \times R \times T}{100}$$

$$R = \frac{2025 \times 100}{6400 \times 2.5}$$

$$R = 15\%$$

Quantity II -

$$\text{Total interest of two year} = \frac{8464 - 6400}{6400} \times 100$$

$$= 32.25$$

32.25% is equivalent CI of two year at 15%

Note: R% equivalent for two years is $R + R + \frac{R \times R}{100}$

$$15 + 15 + \frac{15 \times 15}{100} = 32.25\%$$

So R = 15%

So, **Quantity I = Quantity II**



S2. Ans. (a)

Sol.

We know—

$$\text{Difference for two year (D)} = \frac{PR^2}{100^2}$$

$$125 = \frac{500 \times R^2}{100^2}$$

$$\therefore R = 50\%$$

Quantity I:

$$SI = \frac{P \times R \times t}{100}$$

$$= \frac{500 \times 50 \times 3}{100} = \text{Rs. } 750$$

∴ Quantity I > Quantity II

S3. Ans. (b)

Sol.

Speed of train A in m/sec.

$$= 72 \times \frac{5}{18}$$

$$= 20 \text{ m/sec}$$

Let length of train A be x m

∴ length of platform = 2x m

ATQ,

$$\frac{x+2x}{12} = 20$$

$$\therefore x = 80 \text{ m}$$

Quantity I:

$$30\% \text{ of length} = \frac{30}{100} [80 + 160] = 72 \text{ m}$$

Quantity II:

Let length of train B be y m

ATQ,

$$\frac{80+y}{30} = 10$$

$$y = 220 \text{ m}$$

Quantity II > Quantity I

S4. Ans. (b)

Sol.

Quantity I:

$$\text{Required ways} = 5 \times 6 \times 6 \times 6 = 1080$$

Quantity II:

$$\text{Required ways} = \frac{8!}{2!} - 7!$$

$$= 20,160 - 5040$$

$$= 15120$$

Quantity II > Quantity I

S5. Ans. (a)

Quantity I –

Let speed of train be 5x and 7x respectively

$$(7x - 5x) = \frac{120+160}{28}$$

$$2x = 10$$

$$x = 5$$

$$\text{Speed of faster train} = 5 \times 7 \times \frac{18}{5} = 126 \text{ km/hr}$$

Quantity II –

BANKERS

adda247

Let speed of car be x km/hr

$$\frac{630}{x} - \left(\frac{210}{x} + \frac{420 \times 4}{5x} \right) = \frac{4}{3}$$

$$\frac{3150 - 2730}{5x} = \frac{4}{3}$$

$$20x = 1260$$

$$x = 63 \text{ km/hr}$$

Quantity I > Quantity II

S6. Ans.(b)

Sol.

Pattern is -0.01, -0.02, -0.03, -0.04....

$$\therefore ? = 0.901 - 0.05$$

$$= 0.851$$

S7. Ans.(d)

Sol.

Series is $13^2, 17^2, 19^2, 23^2, 29^2, 31^2, 37^2,$

(square of prime numbers)

$$\therefore ? = 17^2 = 289$$

S8. Ans.(c)

Sol.

Series is $1^3 - 1^2 = 0$

$$2^3 - 2^2 = 4$$

$$3^3 - 3^2 = 18$$

$$4^3 - 4^2 = 48$$

$$5^3 - 5^2 = 100$$

$$6^3 - 6^2 = 180$$

S9. Ans.(b)

Sol.

Pattern is $\div 3, \div 3, \div 3, \div 3, \dots$

$$\therefore ? = 135 \div 3$$

$$= 45$$

S10. Ans.(a)

Sol.

Pattern is $\times 2, \div 3, \times 4, \div 5, \times 6$

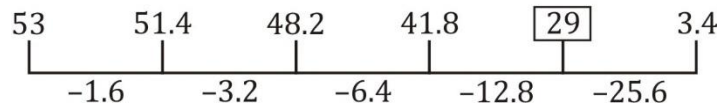
$$\therefore ? = 30 \div 3 = 10$$

S11. Ans.(c)

BANKERS

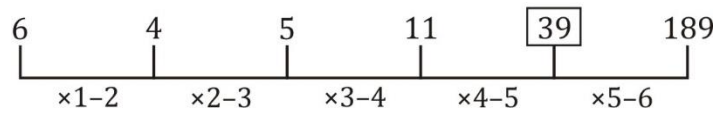
adda247

Sol.



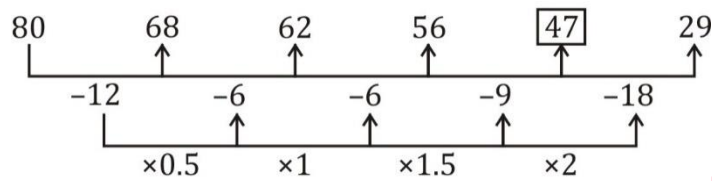
S12. Ans.(a)

Sol.



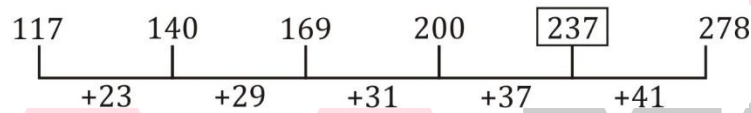
S13. Ans.(e)

Sol.



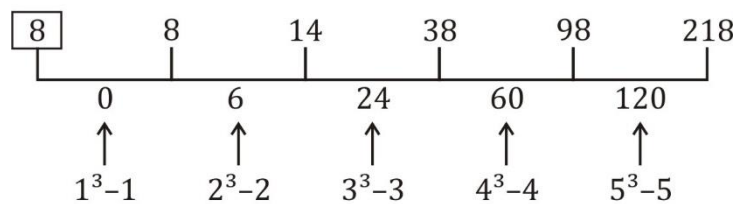
S14. Ans.(b)

Sol.



S15. Ans.(d)

Sol.



For any Banking/Insurance exam Assistance, Give a Missed call @ 01141183264