

Quiz Date: 14th July 2020

Directions (1-5): What should come in place of the question mark (?) in the following number series?

Q1. 121, 130, 155, 204, 285, 406, ?

- (a) 558
- (b) 575
- (c) 564
- (d) 550
- (e) 580

Q2. 5, 7, 30, 272, ?, 108852

- (a) 4534
- (b) 4554
- (c) 4354
- (d) 4252
- (e) 4054

Q3. 1, 1, 2, 4.5, 11, 30, ?

- (a) 87
- (b) 99
- (c) 85
- (d) 93
- (e) 94

Q4. 1571, 1614, 1664, 1728, 1813, ?

- (a) 1926
- (b) 1920
- (c) 1936
- (d) 1896
- (e) 1698

Q5. 51, 64, 116, 233, 441, 766, ?

- (a) 1334
- (b) 1234
- (c) 1254
- (d) 1285
- (e) 1433

Directions (6-8): In the following questions two quantities are given for each question. Compare the numeric value of both the quantities and answers accordingly.

Q6. Quantity I. $12x^2 - 61x + 77 = 0$

Quantity II. $20x^2 - 91x + 99 = 0$

- (a) Quantity I > Quantity II
- (b) Quantity II > Quantity I

BANKERS

adda247

- (c) Quantity I \geq Quantity II
 (d) Quantity II \leq Quantity I
 (e) Quantity I = Quantity II or relation can't be established.

Q7. Quantity I. The average of the five consecutive odd numbers is 23. Then, find the difference between the square of largest and smallest odd numbers.

Quantity II. Find the value of x (Use approximation)

$$495.01 + 63.98\% \text{ of } 949.963 = 738.0 + x$$

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



Q8. Quantity I. $10x^2 - 9x + 2 = 0$

Quantity II. $15x^2 - 11x + 2 = 0$

- (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.

Direction (9 – 10): In the given questions, two quantities are given, one as 'Quantity I' and another as 'Quantity II'. You have to determine relationship between two quantities and choose the appropriate option:

Q9. A train running at the speed of 108 km/hr crosses a pole in 8 sec.

Quantity I – Length of train.

Quantity II – Length of platform which train crosses in 15 sec.

- (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

Q10. 60 man can do a piece of work in 45 days.

Quantity I – Number of days taken by 40 man to do 40% of work.

Quantity II – Time taken by 100 men to do the same work.

- (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

Directions (11-15): What will come in place of question mark (?) in the following number series?

Q11. 1015, 508, 255, 129, 66.5, ?, 20.875

- (a) 34.50
- (b) 35
- (c) 35.50
- (d) 35.75
- (e) 37.75

Q12. 980, 484, 236, 112, 50, ?, 3.5

- (a) 25
- (b) 17
- (c) 21
- (d) 29
- (e) 19

Q13. 32, 36, 52, 88, 152, ?

- (a) 266
- (b) 232
- (c) 242
- (d) 256
- (e) 252

Q14. 3, 4, 12, ?, 196

- (a) 45
- (b) 40
- (c) 41
- (d) 49
- (e) 48

Q15. 2, 8, 26, ?, 242

- (a) 78
- (b) 72
- (c) 80
- (d) 84
- (e) 88



BANKERS

adda247

Solutions

S1. Ans.(b)

Sol.

Series is $+3^2, +5^2, +7^2, +9^2, +11^2, +13^2, \dots$

$$\therefore ? = 406 + 169$$

$$= 575$$

S2. Ans.(c)

Sol.

Series is $\times 1^2 + 2, \times 2^2 + 2, \times 3^2 + 2, \times 4^2 + 2, \times 5^2 + 2, \dots$

$$\therefore ? = 272 \times 16 + 2$$

$$= 4354$$

S3. Ans.(d)

Sol.

Series is $\times 0.5 + 0.5, \times 1 + 1, \times 1.5 + 1.5, \times 2 + 2, \times 2.5 + 2.5$

$$\therefore ? = 30 \times 3 + 3$$

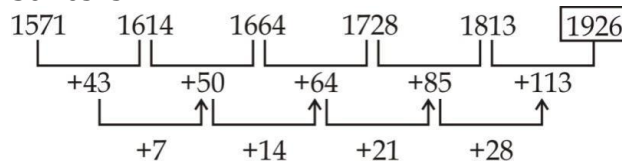
$$= 93$$



S4. Ans.(a)

Sol.

Series is



S5. Ans.(b)

Sol.

Series is

 $+13 \times 1^2, +13 \times 2^2, +13 \times 3^2, +13 \times 4^2, +13 \times 5^2, \dots$

$$\therefore ? = 766 + 13 \times 6^2 = 1234$$

S6. Ans (e)

Sol. Quantity I. $12x^2 - 61x + 77 = 0$

$$\Rightarrow 12x^2 - 28x - 33x + 77 = 0$$

$$\Rightarrow 4x(3x-7) - 11(3x-7) = 0$$

$$\Rightarrow x = 11/4 \text{ or } 7/3$$

Quantity II. $20x^2 - 91x + 99 = 0$

$$\Rightarrow 20x^2 - 36x - 55x + 99 = 0$$

$$\Rightarrow 4x(5x-9) - 11(5x-9) = 0$$

$$x = 11/4 \text{ or } \frac{9}{5}$$

No relation.

S7. Ans(a)

Sol. Quantity I. Let the five consecutive odd numbers be

$x-4, x-2, x, x+2$ and $x+4$

$$\Rightarrow x-4 + x-2 + x + x + 2 + x + 4 = 23 \times 5$$

$$\Rightarrow x = 23$$

Required difference = $(27)^2 - (19)^2 = 368$

Quantity II.

$$X = 495 + 64 \times \frac{950}{100} - 738 = 365$$

Quantity I. > Quantity II.

S8. Ans(c)

Sol. $10x^2 - 9x + 2 = 0$

$$\Rightarrow 10x^2 - 5x - 4x + 2 = 0$$

$$\Rightarrow 5x(2x-1) - 2(2x-1) = 0$$

$$\Rightarrow (5x-2)(2x-1) = 0$$

$$\Rightarrow x = \frac{2}{5} \text{ or } \frac{1}{2}$$

Quantity II.

$$15x^2 - 11x + 2 = 0$$

$$\Rightarrow 15x^2 - 5x - 6x + 2 = 0$$

$$\Rightarrow 5x(3x-1) - 2(3x-1) = 0$$

$$\Rightarrow x = 1/3 \text{ or } 2/5$$

Quantity I \geq Quantity II.

S9. Ans(a)

Sol.

Quantity I -

Let length of train be L m

$$108 \times \frac{5}{18} = \frac{L}{8}$$

$$L = 240 \text{ m}$$

Quantity II -

Let length of platform be L

$$108 \times \frac{5}{18} = \frac{L+240}{15}$$

$$L + 240 = 450$$

BANKERS

adda247

$$L = 210 \text{ m}$$

So, Quantity I > Quantity II

S10. Ans.(e)

Sol.

$$\text{Total work} = 60 \times 45 = 2700 \text{ units}$$

Quantity I -

$$2700 \times \frac{40}{100} = 1080 \text{ units}$$

$$\text{Required days} = \frac{1080}{40} = 27 \text{ days}$$

Quantity II -

$$\text{Required days} = \frac{2700}{100} = 27 \text{ days}$$

So, Quantity I = Quantity II

S11. Ans.(d)

Sol. Series is $(1015+1) \div 2$, $(508+2) \div 2$, $(255+3) \div 2$, and so on

$$\therefore ? = (66.5+5) \div 2 = 35.75$$

S12. Ans.(e)

Sol.

$$T_n = T_{n-1} \div 2 - 6$$

$$\therefore ? = 50 \div 2 - 6 = 19$$

S13. Ans.(e)

Sol.

Series is $+2^2, +4^2, +6^2, +8^2, +10^2$

S14. Ans.(a)

Sol. Series is $\times 1+1, \times 2+4, \times 3+9, \times 4+16$

S15. Ans.(c)

Sol. Series is $\times 3+2, \times 3+2, \times 3+2, \dots$

BANKERS

adda247

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