

Quiz Date: 15th February 2020

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

Q1. 1, 2, 6, 33, 49, 174, ?

- (a) 255
- (b) 284
- (c) 210
- (d) 251
- (e) 198

Q2. 1728, 1740, 1764, 1800, 1848, 1908, ?

- (a) 1980
- (b) 1988
- (c) 2008
- (d) 1976
- (e) 1955

Q3. 4, 4, 9, 29, 119, 599, ?

- (a) 1242
- (b) 1642
- (c) 1824
- (d) 3599
- (e) 4023

Q4. 49, 47, 53, 41, 61, 31, ?

- (a) 75
- (b) 73
- (c) 71
- (d) 79
- (e) 81

Q5. 80, 122, 168, 226, 288, 362, ?

- (a) 420
- (b) 440
- (c) 480
- (d) 460
- (e) 520

Q6. If sum of 5 consecutive odd numbers is 425, so what will be the 4th number from the right end. if numbers is arranged in descending order?

- (a) 89
- (b) 79
- (c) 81
- (d) 83



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(e) 87

Q7. If 6 years ago the ratio of ages of son and father is 2:17 and after 4 years from now the ratio will become 7:22. so, what is the current age of father?

- (a) 30
- (b) 34
- (c) 40
- (d) 42
- (e) 45

Q8. Ram scored 80% marks in maths, 120 marks in English and 'X' marks in Science. if maximum marks of each subject are 200 and he scored 70% marks. Find the value of 'X'?

- (a) 100
- (b) 120
- (c) 130
- (d) 140
- (e) 160

Q9. After giving the discount of 20% on marked price, seller gains the profit of 4%. what is marked price of article. If the cost price is Rs.500?

- (a) 600
- (b) 630
- (c) 680
- (d) 650
- (e) 690

Q10. From a group of 6 men and 4 women. A committee of 5 people is to be formed having at least 3 men. Find the number of possible ways?

- (a) 186
- (b) 190
- (c) 206
- (d) 220
- (e) 160



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Q11. A boat running upstream takes 14 hours to cover a certain distance, while it takes 8 hours to cover the same distance running downstream. What is the ratio between speed of boat in still water to speed of water current?

- (a) 11:9
- (b) 11:3
- (c) 17:11
- (d) 13:7
- (e) 15:7

Q12. A boat covers a distance of 950 km downstream in 19 hour while it takes 25 hour to cover the same distance upstream. What is the speed of boat in still water (in kmph)?

- (a) 44
- (b) 35
- (c) 37
- (d) 48
- (e) 40

Q13. At simple interest, a sum becomes 3 times in 16 years. Find the time in which the sum will be 6 times at the same rate of interest.

- (a) 36 years
- (b) 44 years
- (c) 38 years
- (d) 40 years
- (e) 35 years

Q14. find the difference between simple interest and compound interest on Rs 12000 for $1\frac{1}{2}$ years at 10% per year but interest is calculated on half yearly basis.

- (a) Rs 91
- (b) Rs 91.5
- (c) Rs 93.5
- (d) Rs 95.5
- (e) Rs 96

Q15. Mr. Ravi invested an amount of Rs 2500 divided into two different schemes A and B at the simple interest 14% per annum and 13% per annum respectively. If the total amount of simple interest earned in three years be Rs 1011, what was the amount invested in scheme B?

- (a) Rs 1550
- (b) Rs 1200
- (c) Rs 1700
- (d) Rs 1500
- (e) Rs 1300

Solutions

S1. Ans. (c)

Sol.

$$1+1^3 = 2$$

$$2+2^2 = 6$$

$$6+3^3 = 33$$

$$33+4^2 = 49$$

$$49+5^3 = 174$$

$$\text{So, } 174+6^2 = 210$$

S2. Ans. (a)

Sol.

$$1728+12=1740$$

$$1740+24=1764$$

$$1764+36=1800$$

$$1800+48=1848$$

$$1848+60=1908$$

$$\text{So, } 1908+72=1980$$

S3. Ans. (d)

Sol.

$$4 \times 1 + 0 = 4$$

$$4 \times 2 + 1 = 9$$

$$9 \times 3 + 2 = 29$$

$$29 \times 4 + 3 = 119$$

$$119 \times 5 + 4 = 599$$

$$599 \times 6 + 5 = 3599$$

S4. Ans. (b)

Sol.

$$49-(1 \times 2)=47$$

$$47+(2 \times 3)=53$$

$$53-(3 \times 4)=41$$

$$41+(4 \times 5)=61$$

$$61-(5 \times 6)=31$$

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So, $31 + (6 \times 7) = 73$

S5. Ans. (b)

Sol.

$$9^2 - 1 = 80$$

$$11^2 + 1 = 121$$

$$13^2 - 1 = 168$$

$$15^2 + 1 = 226$$

$$17^2 - 1 = 288$$

$$19^2 + 1 = 362$$

So, $21^2 - 1 = 440$



S6. Ans(e)

Sol. let the consecutive odd number be $2a+1, 2a+3, 2a+5, 2a+7, 2a+9$ where n is any natural number.

$$\therefore \text{according to question } 2a+1+2a+3+2a+5+2a+7+2a+9=425$$

$$\text{So } a=40 \text{ so numbers} = 81, 83, 85, 87, 89$$

If we arrange the number in descending order so 4th from right will be = 87

S7. Ans(c)

Sol. let the age of son and father 6 years ago be $2x$ and $17x$ respectively

So according to question

$$\frac{2x+10}{17x+10} = \frac{7}{22}$$

$$X=2$$

So age of father 6 years ago = $17x = 34$ years

Present age = $34 + 6 = 40$ years

S8. Ans(d)

$$\text{Sol. marks in maths} = \frac{80}{100} \times 200 = 160$$

Marks in English = 120

$$\text{Total marks} = \frac{70}{100} \times 600 = 420$$

$$\therefore 160 + 120 + X = 420$$

$$X = 140$$

S9. Ans(d)

Sol. as there is profit of 4% so, selling price = $\frac{104}{100} \times 500 = 520$

Let the marked price be x Rs

So, A.T.Q

$$80\% \text{ of } x = 520$$

$$\text{So } 100\% \text{ of } x = \frac{520}{80} \times 100 = 650$$

S10. Ans(a)

Sol. required number of ways = $({}^6C_3 \times {}^4C_2) + ({}^6C_4 \times {}^4C_1) + ({}^6C_5) = 120 + 60 + 6 = 186$

S11. Ans(b)

Sol.

Let speed of boat in still water and speed of water current be x kmph and y kmph respectively.

ATQ

$$14(x - y) = 8(x + y)$$

$$14x - 14y = 8x + 8y$$

$$6x = 22y$$

$$\frac{x}{y} = \frac{11}{3}$$

So, required ratio = 11 : 3

S12. Ans(a)

Sol.

Let speed of boat in still water = u km/h

And speed of current = v km/h

$$\text{Downstream speed } (u+v) = \frac{950}{19}$$

$$= 50 \text{ km/h}$$

$$\text{Upstream speed } (u-v) = \frac{950}{25}$$

$$= 38 \text{ km/h}$$

On solving

Speed of boat in still water (u) = 44 km/h

S13. Ans(d)

Sol.

3 times in 16 years

So, interest will be 2 times of principal

Let principal = Rs. P

And rate = r%

$$2p = \frac{p \times r \times 16}{100}$$

$$R = 12 \frac{1}{2} \%$$

Let required time be t years.

$$\text{So, } 5p = \frac{p \times 12 \frac{1}{2} \times t}{100}$$

$$t = 40 \text{ years}$$

S14. Ans.(b)

Sol. Since rate calculated half yearly

$$\left. \begin{aligned} R &= \frac{10}{2} = 5 \% \\ \text{and time} &= \frac{3}{2} \times 2 = 3 \text{ half years} \end{aligned} \right\} \text{for C. I}$$

$$\text{C.I-S.I} = 12000 \left[\left(1 + \frac{5}{100} \right)^3 - 1 \right] - \frac{12000 \times 10 \times 3}{100 \times 2}$$

$$= 1891.5 - 1800$$

$$= \text{Rs } 91.5$$

S15. Ans.(e)

Sol. Let investment in scheme A = x Rs.

investment in scheme B = (2500 - x) Rs.

$$\frac{x \times 14 \times 3}{100} + \frac{(2500 - x) \times 13 \times 3}{100} = 1011$$

$$\frac{3x}{100} = 36$$

$$x = \text{Rs. } 1200$$

$$\text{Required sum} = 2500 - 1200 = \text{Rs. } 1300$$

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