

Quiz Date: 5<sup>th</sup> April 2020

Directions (1-5): Find out wrong number in following number series:

Q1. 1500, 1581, 1664, 1749, 1833, 1925, 2016

- (a) 2016
- (b) 1664
- (c) 1833
- (d) 1581
- (e) 1925

Q2. 1, 5, 3, 17, 19, 67, 91

- (a) 19
- (b) 67
- (c) 3
- (d) 91
- (e) 5

Q3. 655, 439, 314, 250, 233, 215

- (a) 233
- (b) 314
- (c) 439
- (d) 215
- (e) 250

Q4. 582, 605, 588, 611, 634, 617, 600

- (a) 634
- (b) 611
- (c) 605
- (d) 600
- (e) 582

Q5. 37, 47, 52, 67, 87, 112, 142

- (a) 47
- (b) 52
- (c) 67
- (d) 87
- (e) 112

Directions (6-10): What will come in place of questions mark (?) in the following questions?

Q6.  $1898 \div 73 \times 72 = (?)^2 \times 13$

- (a) 24
- (b) 256
- (c) 12
- (d) 144

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(e) 16

Q7. 65% of  $\sqrt{3136} \times 5 = ? + 154$

(a) 56

(b) 28

(c) 35

(d) 32

(e) 30

Q8.  $454.58 - 376.89 + 121.45 - 95.42 = ?$

(a) 102.22

(b) 103.72

(c) 91.72

(d) 92.32

(e) None of these



Q9.  $\left(\frac{3}{2} \times \frac{16}{4} \times \frac{3}{8}\right) + \left(\frac{3}{8} \times \frac{12}{4} \times \frac{18}{2}\right) = ?$

(a)  $12\frac{1}{8}$

(b)  $12\frac{2}{8}$

(c)  $12\frac{3}{8}$

(d)  $12\frac{5}{8}$

(e)  $12\frac{7}{8}$

Q10.  $(3080 + 6160) \div ? = 330$

(a) 26

(b) 22

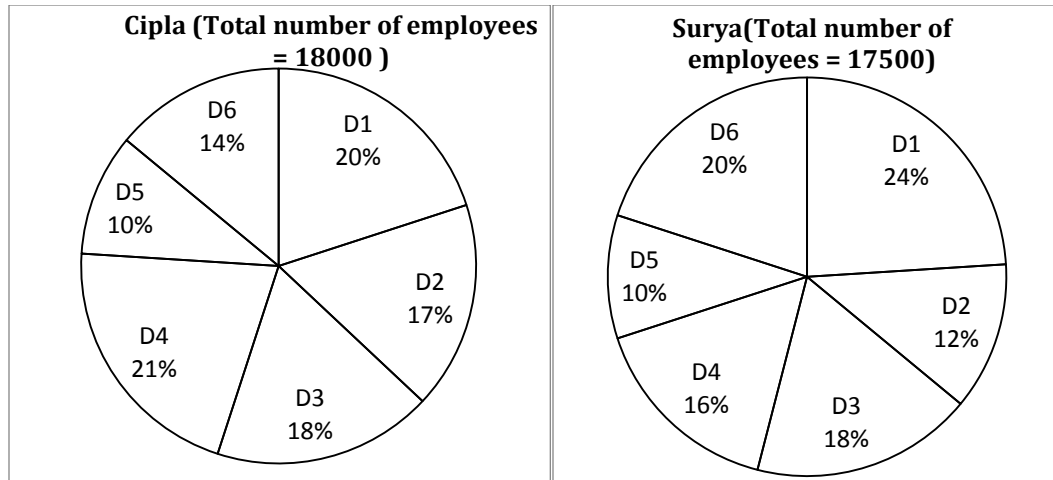
(c) 28

(d) 29

(e) 18

Directions (11-15): Read the following pie chart and table carefully and answer the questions given below.

Number of employees in different departments of Cipla and Surya company



Ratio of males and females in different departments of both companies

	Cipla		Surya	
	Male	Female	Male	Female
D1	7	5	4	3
D2	8	7	2	1
D3	5	4	8	7
D4	11	7	9	5
D5	4	1	7	3
D6	7	3	17	8

Q11. What is the total number of females in department D3 of both companies?

- (a) 2880
- (b) 2940
- (c) 2950
- (d) 2910
- (e) 2900

Q12. What is the average number of males in department D5 and D6 in Cipla?

- (a) 1602
- (b) 1596
- (c) 1612
- (d) 1628
- (e) 1610

Q13. The number of females in department D1 in Surya is equal to number of males in which department of Cipla

- (a) D2
- (b) D4
- (c) D3
- (d) D6
- (e) None of these

Q14. What is the respective ratio between the number of females in department D1 in Cipla and that of females in department D4 in Surya?

- (a) 1 : 2
- (b) 3 : 2
- (c) 3 : 1
- (d) 2 : 3
- (e) None of these

Q15. What is the difference between the number of females in department D5 of both companies?

- (a) 170
- (b) 160
- (c) 168
- (d) 162
- (e) None of these



Solutions

S1. Ans.(c)

Sol.

Pattern is:

+81, +83, +85, +87, +89, +91

$\therefore 1749 + 87 = 1836 \neq 1833$

$\therefore$  Wrong number=1833

So, there should be 1836 instead of 1833

S2. Ans.(b)

Sol.

Pattern is:

$\times 2 + 3, \times 2 - 7, \times 2 + 11, \times 2 - 15, \times 2 + 19, \times 2 - 23$

$\therefore 19 \times 2 + 19 = 57 \neq 67$

$\therefore$  Wrong number= 67

So, there should be 57 instead of 67.

S3. Ans.(a)

Sol.

Pattern is:

$$-6^3, -5^3, -4^3, -3^3, -2^3$$

$$\therefore 250 - 3^3 = 223 \neq 233$$

$\therefore$  Wrong number = 233

So, there should be 223 instead of 233

S4. Ans.(a)

Sol.

Pattern of series is:

$$582 + 23 = 605$$

$$605 - 17 = 588$$

$$588 + 23 = 611$$

$$611 - 17 = 594 \neq 634$$

$$594 + 23 = 617$$

$$617 - 17 = 600$$

$\therefore$  Wrong number = 634

So, there should be 594 instead of 634

S5. Ans.(a)

Sol. The pattern of the number series is:

$$37 + 1 \times 5 = 42 \text{ .....not } 47$$

$$42 + 2 \times 5 = 52$$

$$52 + 3 \times 5 = 67$$

$$67 + 4 \times 5 = 87$$

$$87 + 5 \times 5 = 112$$

$$112 + 6 \times 5 = 142$$

$\therefore$  Wrong number = 47

So, there should be 42 instead of 47

S6. Ans.(c)

$$\text{Sol. } (?)^2 = \frac{1898 \times 72}{73 \times 13} = 144$$

$$\text{or, } ? = \pm 12$$

S7. Ans.(b)

$$\text{Sol. } ? = \frac{65}{100} \times 56 \times 5 - 154 = 182 - 154$$

$$\text{or, } ? = 28$$

S8. Ans.(b)

$$\text{Sol. } ? = 576.03 - 472.31$$

$$\text{or, } ? = 103.72$$

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S9. Ans (c)

$$\text{Sol. } \frac{144+648}{64} = \frac{792}{64}$$

$$= 12\frac{3}{8}$$

S10. Ans (c)

$$\text{Sol. } \frac{9240}{330} = ?$$

$$? = 28$$

S11. Ans.(d)

$$\text{Sol. Females in D3 ( Cipla)} = 18000 \times \frac{18}{100} \times \frac{4}{9} = 1440$$

$$\text{Females in D3 (Surya)} = 17500 \times \frac{18}{100} \times \frac{7}{15} = 1470$$

$$\text{Total} = 1440 + 1470 = 2910$$



S12. Ans.(a)

$$\text{Sol. Males in D5 (Cipla)} = 18000 \times \frac{10}{100} \times \frac{4}{5} = 1440$$

$$\text{Males in D6 (Cipla)} = 18000 \times \frac{14}{100} \times \frac{7}{10} = 1764$$

$$\text{Average} = \frac{1440+1764}{2} = 1602$$

S13. Ans.(c)

$$\text{Sol. Females in D1 (Surya)} = \frac{24}{100} \times 17500 \times \frac{3}{7} = 1800$$

$$\text{Males in D3 (Cipla)} = \frac{18}{100} \times 18000 \times \frac{5}{9} = 1800$$

S14. Ans.(b)

$$\text{Sol. Females in D1 (Cipla)} = \frac{20}{100} \times 18000 \times \frac{5}{12} = 1500$$

$$\text{Female in D4 (Surya)} = \frac{16}{100} \times 17500 \times \frac{5}{14} = 1000$$

$$\text{Ratio} = 1500 : 1000$$

$$= 3 : 2$$

S15. Ans.(e)

$$\text{Sol. Females in D5 (Cipla)} = \frac{10}{100} \times 1800 \times \frac{1}{5} = 360$$

$$\text{Female in D5 (Surya)} = \frac{10}{100} \times 17500 \times \frac{3}{10} = 525$$

Difference = 165

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