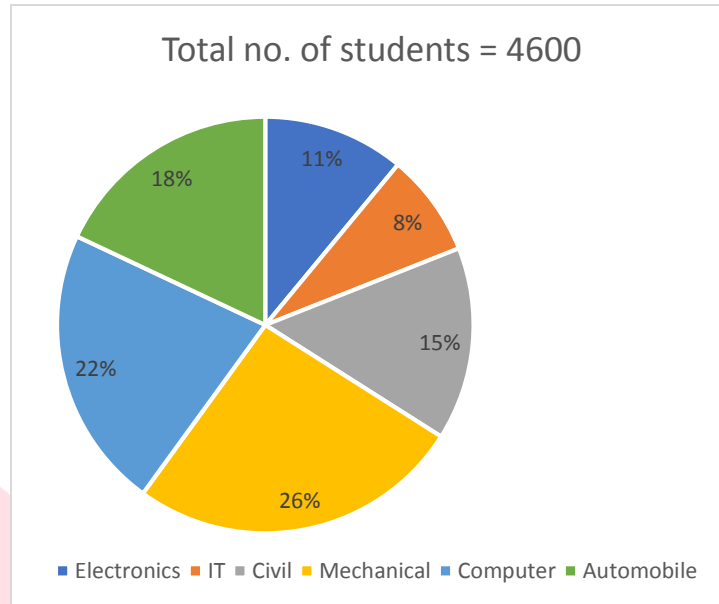


Quiz Date: 27th April 2020

Directions (1 - 5): Study the pie chart and table carefully and answer the following questions.



Stream	Ratio of boys and girls
Electronics	1 : 1
IT	3 : 1
Civil	3 : 2
Mechanical	1 : 3
Computer	1 : 1
Automobile	5 : 1

Q1. Total girls studying in Mechanical stream are how much more or less than total boys studying in Civil?

- (a) 481
- (b) 483
- (c) 485
- (d) 487
- (e) None of these

Q2. Find the approximate average no. of boys studying in Electronics, IT and Civil stream?

- (a) 314
- (b) 324
- (c) 334
- (d) 344

(e) 354

Q3. In which stream the difference between no. of boys and girls is maximum?

- (a) IT
- (b) Civil
- (c) Mechanical
- (d) Automobile
- (e) Electronics

Q4. Find the total number of girls studying in the college.

- (a) 2082
- (b) 2182
- (c) 2282
- (d) 2382
- (e) None of these



Q5. Total boys studying in college is what percent more/less than the total girls studying in college?

- (a) 6%
- (b) 11.32%
- (c) 20.5%
- (d) 12.76%
- (e) 15%

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

Q6. 12, 6.5, 11, 7.5, 10, 8.5, ?

- (a) 9.5
- (b) 9
- (c) 10
- (d) 10.5
- (e) 8

Q7. 1, 4, 27, 16, 125, 36, ?

- (a) 512
- (b) 729

- (c) 343
(d) 216
(e) 1331

Q8. 13, 10, 4, -5, -17, ?

- (a) -34
(b) -32
(c) -22
(d) 34
(e) -2

Q9. 169, ?, 361, 529, 841, 961

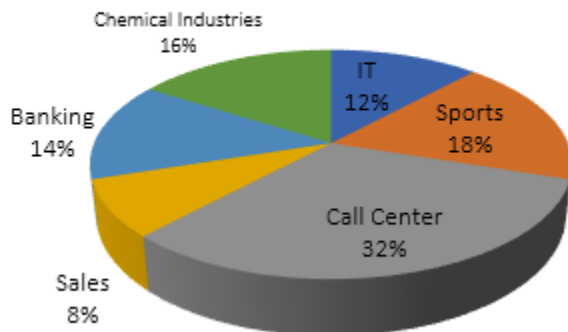
- (a) 196
(b) 225
(c) 250
(d) 289
(e) 441

Q10. 0, 6, 24, 60, ?, 210

- (a) 120
(b) 125
(c) 211
(d) 59
(e) 338

Directions (11-15): Study the following Pie-chart carefully and answer the questions given below.

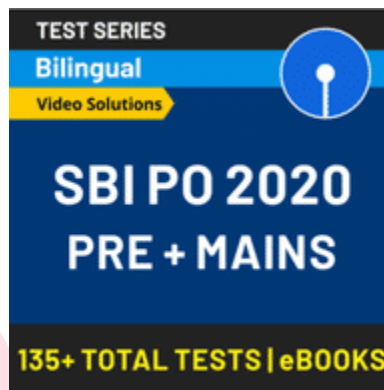
% of people in a city working in night shifts from various industries,
total No. of people=40250



Industries	Females Percentage
IT	20
Sports	20
Call Center	45
Sales	60
Banking	40
Chemical Industries	15

Q11. What is the respective ratio of men to the women working in night shifts from the call center industry?

- (a) 9 : 11
- (b) 7 : 5
- (c) 8 : 13
- (d) 11 : 7
- (e) 11 : 9



Q12. What is the approximate average number of females working in night shifts from all the industries together?

- (a) 2227
- (b) 4481
- (c) 3326
- (d) 2823
- (e) 4107

Q13. What is the total number of men working in night shifts from all the industries together?

- (a) 28291
- (b) 25788
- (c) 28678
- (d) 26887
- (e) 28876

Q14. The number of women from the sports industry working in night shift are what per cent of the total number of people working in the night shifts from all the industries together?

- (a) 5.6%

- (b) 3.6%
 (c) 3.2%
 (d) 4.4%
 (e) 8.4%

Q15. What is the difference between the total number of men and the total number of women working in night shifts from all the industries together?

- (a) 13254
 (b) 13542
 (c) 13524
 (d) 13363
 (e) 12363

Solutions

S1. Ans. (b)

$$\text{Sol. Required difference} = \left(\frac{3}{4} \times \frac{26}{100} \times 4600\right) - \left(\frac{3}{5} \times \frac{15}{100} \times 4600\right) \\ = 897 - 414 = 483$$

S2. Ans. (a)

$$\text{Sol. Required average} = \frac{\left(\frac{11}{100} \times 4600 \times \frac{1}{2} + \frac{8}{100} \times 4600 \times \frac{3}{4} + \frac{15}{100} \times 4600 \times \frac{2}{5}\right)}{3} \\ = \frac{253 + 276 + 414}{3} \approx 314$$

S3. Ans. (c)

$$\text{Sol. Difference is maximum for Mechanical stream i.e.} = \frac{2}{4} \times \frac{26}{100} \times 4600 = 598$$

S4. Ans. (e)

$$\text{Sol. Total number of girls} \\ = \frac{11}{100} \times 4600 \times \frac{1}{2} + \frac{8}{100} \times 4600 \times \frac{1}{4} + \frac{15}{100} \times 4600 \times \frac{2}{5} + \frac{26}{100} \times 4600 \times \frac{3}{4} \\ + \frac{22}{100} \times 4600 \times \frac{1}{2} + \frac{18}{100} \times 4600 \times \frac{1}{6} \\ = 253 + 92 + 276 + 897 + 506 + 138 = 2162$$

S5. Ans. (d)

Sol. From previous question,

Total no. of girls in college = 2162

No. of boys in college = $4600 - 2162 = 2438$

$$\text{Required percentage} = \frac{(2438 - 2162)}{2162} \times 100 = 12.76\%$$

S6. Ans.(b)

Sol.

Pattern is

$$-5.5, +4.5, -3.5, +2.5, -1.5, +0.5$$

$$\therefore ? = 8.5 + 0.5$$

$$= 9$$

S7. Ans.(c)

Sol.

Series is, $1^3, 2^2, 3^3, 4^2, 5^3, 6^2, 7^3$

$$\therefore ? = 7^3 = 343$$

S8. Ans.(b)

Sol.

Pattern is $-3, -6, -9, -12, -15$

$$\therefore ? = -17 - 15$$

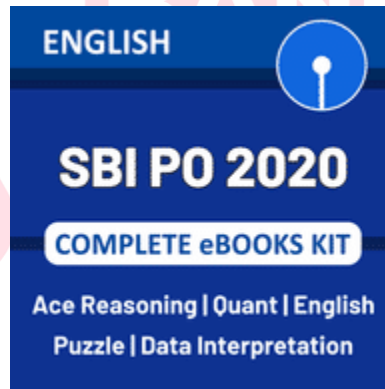
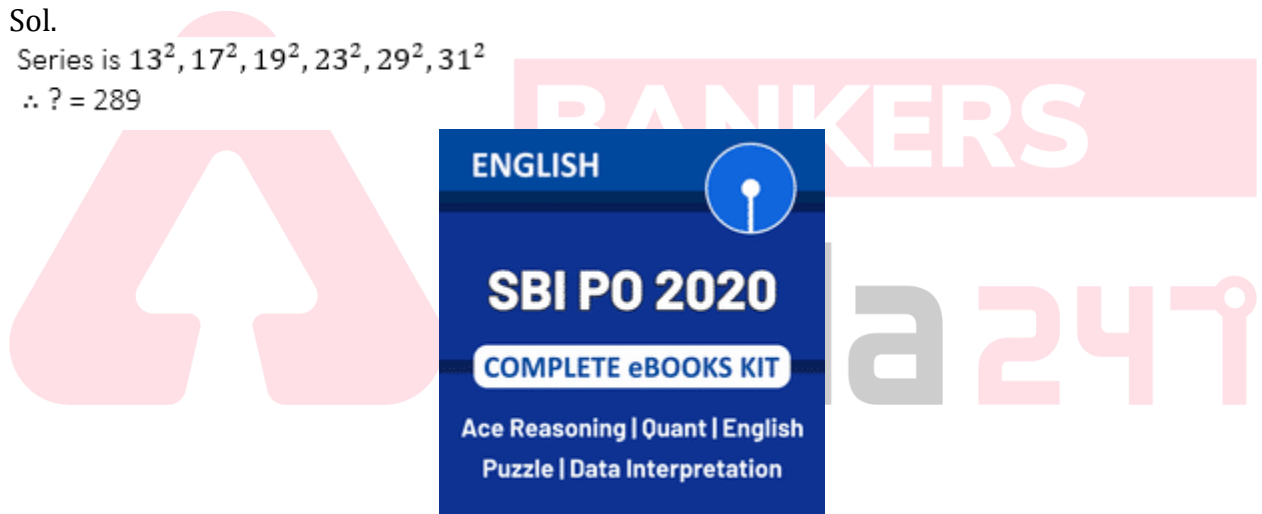
$$= -32$$

S9. Ans.(d)

Sol.

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

$$\therefore ? = 289$$



S10. Ans.(a)

Sol.

$$\text{Series is } 1^3 - 1 = 0$$

$$2^3 - 2 = 6$$

$$3^3 - 3 = 24$$

$$4^3 - 4 = 60$$

$$5^3 - 5 = 120$$

$$6^3 - 6 = 210$$

$$\therefore ? = 120$$

S11. Ans. (e)

Sol. Required ratio = $55 : 45 = 11 : 9$

S12. Ans. (a)

Sol. No of women = $966 + 1449 + 5796 + 1932 + 2254 + 966 = 13363$

$$\text{Required average} = \frac{13363}{6} \approx 2227$$

S13. Ans. (d)

Sol. Total number of men = $40250 - 13363 = 26887$

S14. Ans. (b)

Sol.

Required percentage

$$= \frac{1449}{40250} \times 100 = 3.6\%$$

S15. Ans. (c)

Sol. Required difference = $26887 - 13363 = 13524$

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