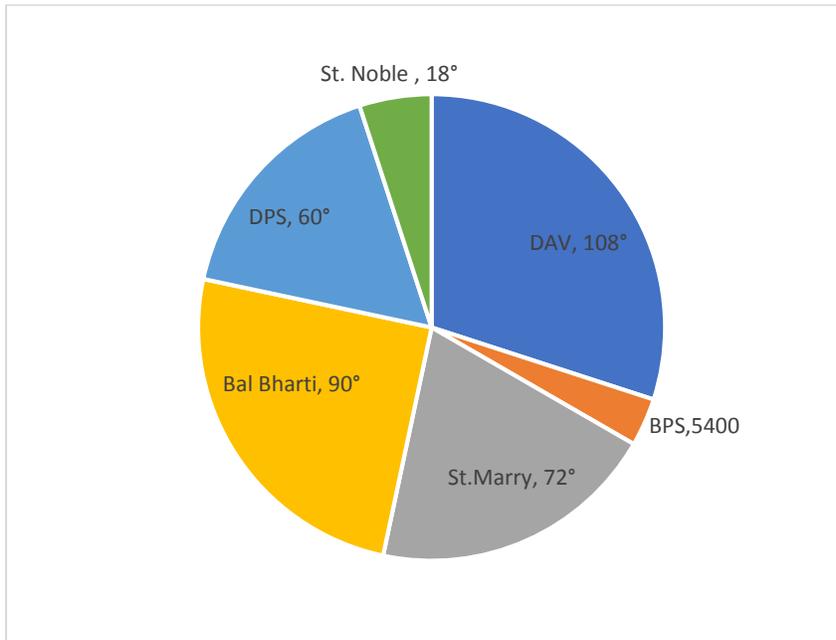


Quiz Date: 25th June 2020

Directions (1-5): The following pie-chart shows the distribution of tablets to the students of six different colleges and the table shows the ratio of boys and girls in them. Study the graphs carefully to answer the following questions.

Note: Some data are in degree and some data are in absolute value.



Colleges	Ratio of Boys and Girls Boys : Girls
DAV	5 : 4
BPS	3 : 1
St. Marry	5 : 3
Bal Bharti	3 : 2
DPS	7 : 5
St. Noble	2 : 1

Q1. Total no. of boys from DAV college who got tablets is what per cent more than that of boys from Bal Bharti?

- (a) 50/3%
- (b) 100/9%
- (c) 200/9%
- (d) 80/9%
- (e) None of these

Q2. What is the average number of girls from St. Marry, DPS and St. Noble together who got tablets?

- (a) 8,700

- (b) 7,800
- (c) 9,700
- (d) 6,700
- (e) 10,700

Q3. If $16\frac{2}{3}\%$ students of St. Marry donate their tablets to other students who are poor then total no. of students of St. Marry who kept tablets finally is what percent of total no. of students of BPS who got tablets?

- (a) 50%
- (b) 400%
- (c) 500%
- (d) 450%
- (e) 250%



Q4. What is the difference between total no. of boys of BPS and Bal Bharti together and total no. of girls of DAV and St. Noble together who got tablets?

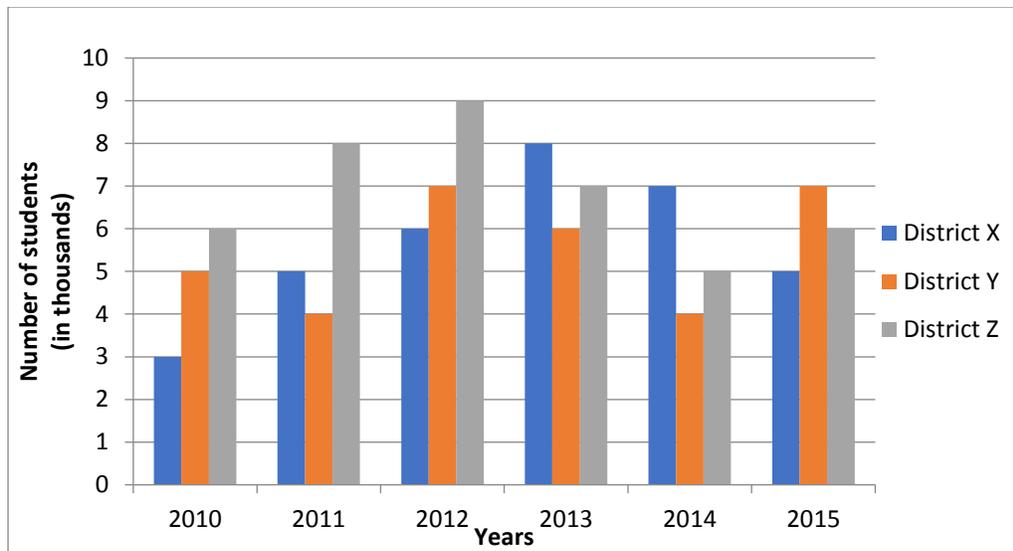
- (a) 5,400
- (b) 4,005
- (c) 4,050
- (d) 3,050
- (e) 3,090

Q5. Find the total no. of boys of colleges DAV, St. Marry and DPS together.

- (a) 61,000
- (b) 63,000
- (c) 53,000
- (d) 73,000
- (e) 63,500

Directions (6-10): **Study the following graph carefully to answer the questions that follow:**

Number of students (In thousands) enrolled in three different districts in six different years



Q6. What was percentage increase in enrollment in the number of students in District-Z in year 2012 as compared to that of the previous year?

- (a) 115.5
- (b) 112.5
- (c) 15.5
- (d) 12.5
- (e) 17.5

Q7. What was the difference between the number of students enrolled in all the three districts in the year 2013 together and the number of students enrolled in District-Y over all the years together?

- (a) 12000
- (b) 11000
- (c) 1100
- (d) 1400
- (e) 1600

Q8. What was the approximate average number of students enrolled in District-X over all the years together?

- (a) 5999
- (b) 5666
- (c) 5444
- (d) 53333
- (e) 6999

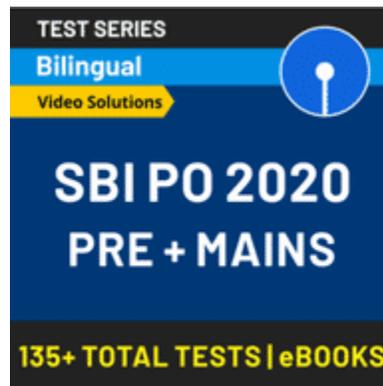
Q9. In which year was the number of students enrolled in all the three districts together second highest?

- (a) 2011
- (b) 2012
- (c) 2013

- (d) 2014
(e) 2015

Q10. Total number of students enrolled in the District-X and District -Y together in the year 2015 was what percentage of the total number of students enrolled in District-X in the year 2013?

- (a) 150
(b) 120
(c) 250
(d) 220
(e) 240



Directions (11-15): Study the following table and answer the following questions.

Import of total items from China (Rs. In Cr.)		
Year	Total imports	Imports of Electronic items
2005	6593	572
2006	6404	634
2007	5496	727
2008	5992	693
2009	6432	563

Q11. Total imports in year 2006 is approximately what percent of total imports in all the years together?

- (a) 21
(b) 29
(c) 17
(d) 12
(e) 24

Q12. The rise in electronic items import in 2007 from 2006 was nearly (in percentage)?

- (a) 15%
(b) 17%
(c) 25%
(d) 22%
(e) 26%

Q13. Over the 4 year period from 2006 to 2009 the electronic import income is approximately what percent of total import income during same period?

- (a) 20%
- (b) 11%
- (c) 17%
- (d) 29%
- (e) 33%

Q14. If the electronic items have not been imported in the year 2006 then what will be the total imports of that year?

- (a) 5470
- (b) 5830
- (c) 5970
- (d) 5770
- (e) 6770

Q15. What is the average import over all year?

- (a) 6183.4
- (b) 6283.4
- (c) 6083.4
- (d) 6583.4
- (e) 608.34

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Solutions

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S1. Ans.(b)
Sol.

$$\begin{aligned} \text{Required percentage} &= \frac{\frac{5}{9} \times 108 - \frac{3}{5} \times 90}{\frac{3}{5} \times 90} \times 100 \\ &= \frac{100}{9} \% \end{aligned}$$

S2. Ans.(a)
Sol.

$$\begin{aligned} \text{Required average} &= \frac{1}{3} \times \left(\frac{3}{8} \times \frac{72}{12} + \frac{5}{12} \times \frac{60}{12} + \frac{1}{3} \times \frac{18}{12} \right) \times 5400 \\ (\because \text{BPS} &= 360 - 348 = 12^\circ) \\ &= \frac{1}{3} \times (26,100) \\ &= 8,700 \end{aligned}$$

S3. Ans.(c)
Sol.

$$\frac{50}{3}\% = \frac{1}{6}$$

$$\begin{aligned}\therefore \text{Required percentage} &= \frac{\frac{5}{6} \times 72}{12} \times 100 \\ &= 500\%\end{aligned}$$

S4. Ans.(c)

Sol.

Total no. of boys of BPS and Bal Bharti together who

$$\text{got tablets} = \frac{3}{4} \times 5400 + \frac{3}{5} \times \frac{90}{12} \times 5400$$

$$= 28,350$$

Total no. of girls of DAV and St. Noble who got tablets

$$= \frac{4}{9} \times \frac{108}{12} \times 5400 + \frac{1}{3} \times \frac{18}{12} \times 5400$$

$$= 21,600 + 2,700$$

$$= 24,300$$

$$\therefore \text{Required difference} = 28,350 - 24,300$$

$$= 4,050$$

S5. Ans.(b)

Sol.

Required no. of boys

$$= \left(\frac{5}{9} \times \frac{108}{12} + \frac{5}{8} \times \frac{72}{12} + \frac{7}{12} \times \frac{60}{12} \right) \times 5400$$

$$= 63,000$$

S6. Ans.(d)

Sol.

Required percentage increase

$$= \frac{9 - 8}{8} \times 100 = \frac{100}{8} = 12.5\%$$

S7. Ans.(a)

Sol.

Number of students enrolled in all the three districts in the year 2013

$$= (8 + 6 + 7)$$

$$= 21 \text{ thousand}$$

Number of students enrolled in District-Y over all the years together

$$= (5 + 4 + 7 + 6 + 4 + 7)$$

$$= 33 \text{ thousand}$$

$$\therefore \text{Required difference} = (33 - 21)$$

$$= 12,000$$

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S8. Ans.(b)

Sol.

Average number of students enrolled in District-X over all the years together

$$= \frac{1}{6} \times (3 + 5 + 6 + 8 + 7 + 5)$$

$$= \frac{1}{6} \times 34$$

$$\approx 5.666 \text{ thousands}$$

$$\approx 5666 \text{ (approximately)}$$

S9. Ans.(c)

Sol.

The highest number of students may be in year 2012 or 2013 from the graph.

∴ Students enrolled in 2012

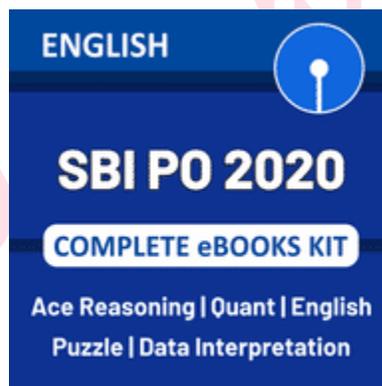
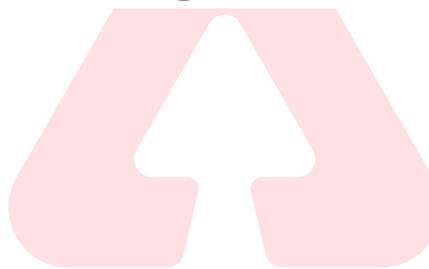
$$= (6 + 7 + 9)$$

$$= 22 \text{ thousand}$$

and students enrolled in 2013 = (8 + 6 + 7)

$$= 21 \text{ thousand}$$

∴ second highest enrolled students are in 2013



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S10. Ans.(a)

Sol.

Total number of students enrolled in the year 2015 from district-X and Y

$$= (5 + 7)$$

$$= 12 \text{ thousand}$$

Number of students enrolled in District-X in 2013 = 8 thousands

$$\text{Required percentage} = \frac{12}{8} \times 100$$

$$= \frac{3}{2} \times 100$$

$$= 150\%$$

S11. Ans.(a)

Sol.

In 2006 imports = 6404

And total imports = 30917

So, in percentage

$$= \frac{6404}{30917} \times 100 = 20.71\% \simeq 21\%$$

S12. Ans.(a)

Sol.

$$\text{Rise in 2007} = \frac{727-634}{634} \times 100$$

$$= \frac{93}{634} \times 100 = 14.66\% \simeq 15\%$$

S13. Ans.(b)

Sol.

Period from 2006 to 2009

Electronic import = 634 + 727 + 693 + 563 = 2617

Total import = 6404 + 5496 + 5992 + 6432

= 24324

$$\Rightarrow \frac{2617}{24324} \times 100 = 10.75\% = 11\%$$

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S14. Ans.(d)

Sol. In 2006 total imports = 6404

If electronic items have not been imported then the total imports of that

Year = 6404 - 634 = 5770

S15. Ans.(a)

Sol.

Average import

$$= \frac{6593+6404+5496+5992+6432}{5}$$

$$= \frac{30917}{5} = 6183.4$$