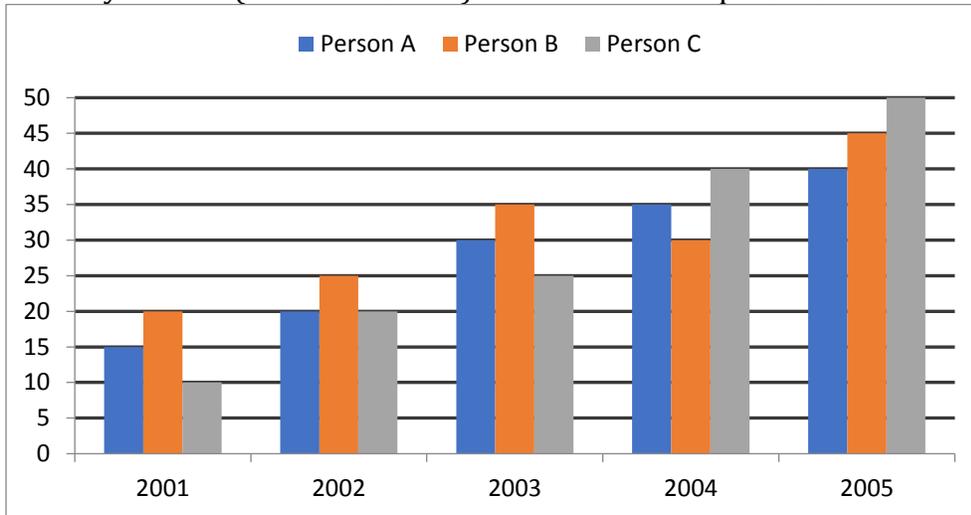


Quiz Date: 5<sup>th</sup> May 2020

Directions (1-5): Study the following graph carefully to answer the questions that follows:

Monthly income (Rs in thousands) of three different persons in five different years



Q1. Find the average monthly income of person B over all years

- (a) 26000
- (b) 31000
- (c) 35000
- (d) 22000
- (e) 32000

Q2. What is the difference between sum of total monthly income of person A and that of person C over all years?

- (a) 8000
- (b) 10000
- (c) 5000
- (d) 4000
- (e) 4500

Q3. The monthly income of person A is what percent more or less than the monthly income of B in the year 2003?

- (a)  $14\frac{2}{7}\%$  less
- (b)  $14\frac{2}{7}\%$  more
- (c) 14 % less
- (d) 14% more
- (e) None of these

Q4. Find the ratio of total monthly income of A in the year 2002 and 2004 together to the total monthly income of C in the years 2001 and 2003 together.

- (a) 13 : 6
- (b) 4 : 9
- (c) 7 : 11
- (d) 11 : 7
- (e) 9 : 11

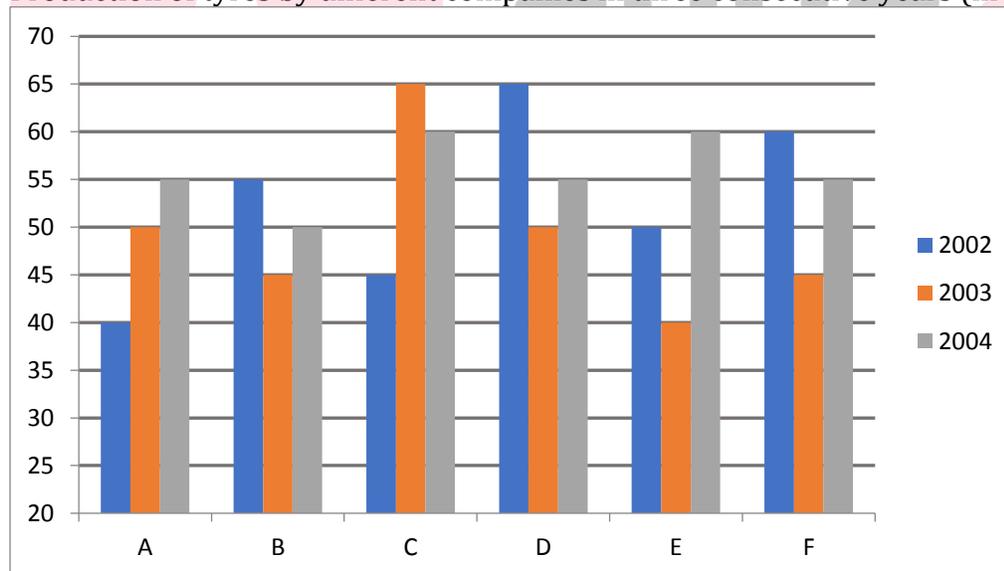
Q5. In which year the person B get maximum income?

- (a) 2005
- (b) 2004
- (c) 2002
- (d) 2003
- (e) 2001



Directions (6-10): Study the following graph carefully & answer the questions that follows: -

Production of tyres by different companies in three consecutive years (in lakh)



Q6. What is approximate difference between average production of the 6 companies in 2002 and average production of same companies in 2004?

- (a) 3.3 lakh
- (b) 5 lakh
- (c) 5.5 lakh
- (d) 4.5 lakh
- (e) 4 lakh

Q7. What is percentage increase in production by company A from 2002 to 2003?

- (a) 35%
- (b)  $7\frac{11}{13}\%$
- (c) 25%
- (d) 20%
- (e)  $9\frac{11}{13}\%$

Q8. Which of following companies recorded the maximum percentage growth from 2002 to 2004?

- (a) A
- (b) D
- (c) E
- (d) C
- (e) A and C

Q9. Production of company E in 2002 & production of company C in 2004 together is what percent of production of company D in 2003?

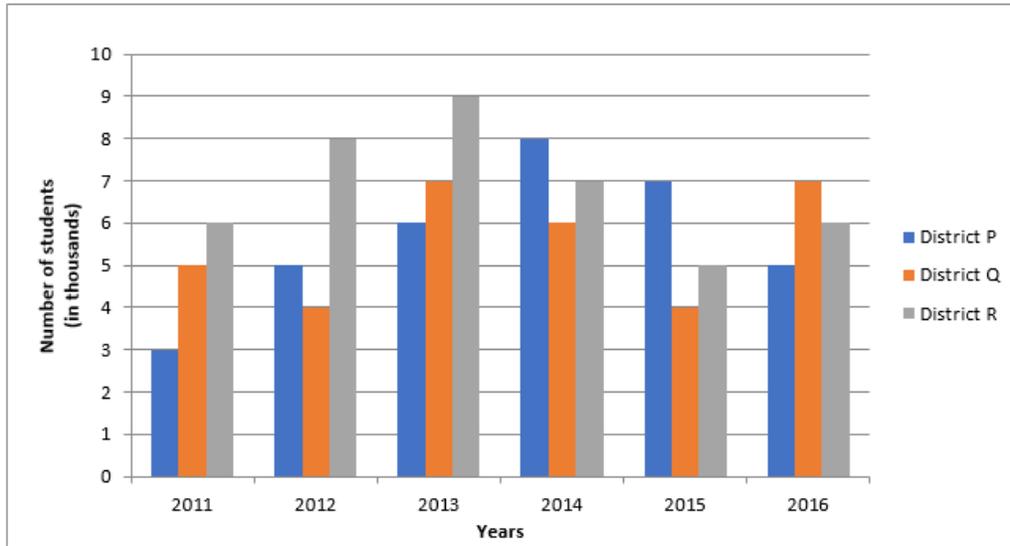
- (a) 120 %
- (b) 220 %
- (c) 200 %
- (d) 150 %
- (e) 250 %

Q10. What is the ratio of production of company B in 2003 and company C in 2002 together to the company D and F in year 2004 together?

- (a) 11 : 7
- (b) 2 : 5
- (c) 7 : 11
- (d) 11 : 9
- (e) 9 : 11

Directions (11-15): **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



Q11. What was percentage increase in enrollment in the number of students in District-R in year 2013 as compared to that of the previous year?

- (a) 115.5%
- (b) 112.5%
- (c) 15.5%
- (d) 12.5%
- (e) 16.5%

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Q12. What was the difference between the number of students enrolled in all the three districts in the year 2014 together and the number of students enrolled in District-Q over all the years together?

- (a) 12,000
- (b) 11,000
- (c) 1,100
- (d) 1,400
- (e) 16,000

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Q13. What was the approximate average number of students enrolled in District-P over all the years?

- (a) 5,999
- (b) 5,666
- (c) 5,444
- (d) 53,333
- (e) 43,333

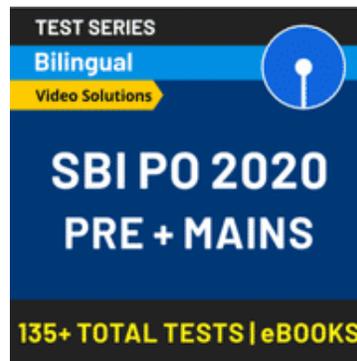
Q14. In which year was the number of students enrolled in all the three districts together second highest?

- (a) 2011
- (b) 2012
- (c) 2014

- (d) 2013  
(e) 2016

Q15. Total number of students enrolled in the District-P and District -Q together in the year 2016 was what percentage of the total number of students enrolled in District-P in the year 2014?

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



Solutions

S1. Ans.(b)

Sol.

Required average

$$\left( = \frac{1}{5} \times (20 + 25 + 35 + 30 + 45) \right. \\ \left. = 31 \text{ thousands} \right.$$

S2. Ans.(c)

Sol.

Required difference

$$\left| \begin{array}{l} (15 + 20 + 30 + 35 + 40) \\ -(10 + 20 + 25 + 40 + 50) \end{array} \right| \text{ thousands} \\ = 5000$$

S3. Ans.(a)

Sol.

Required percentage

$$= \frac{35 - 30}{35} \times 100 \\ = 14\frac{2}{7}\% \text{ less}$$

S4. Ans.(d)

Sol.

$$\begin{aligned} &\text{Required ratio} \\ &= \frac{(20 + 35)}{(10 + 25)} = \frac{11}{7} \end{aligned}$$

S5. Ans.(a)

Sol.

From the graph it is clear that person B gets maximum income in 2005

S6. Ans.(a)

Sol.

$$\begin{aligned} &\text{Required difference} \\ &= \left[ \left( \frac{40 + 55 + 45 + 65 + 50 + 60}{6} \right) - \left( \frac{55 + 50 + 60 + 55 + 60 + 55}{6} \right) \right] \\ &= \frac{315}{6} - \frac{335}{6} \\ &= 52.5 - 55.833 \\ &= 3.333 \text{ lakhs} \end{aligned}$$

S7. Ans.(c)

Sol.

$$\begin{aligned} &\text{Percentage increase} \\ &= \frac{50 - 40}{40} \times 100 \\ &= \frac{10}{40} \times 100 = 25\% \end{aligned}$$

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S8. Ans.(a)

Sol.

B, F & D shows no growth

Growth percentage of A

$$= \frac{55-40}{40} \times 100 = 37.5\%$$

Growth percentage of C

$$= \frac{60-45}{45} \times 100 = 33\frac{1}{3}\%$$

Growth percentage of E

$$= \frac{60-50}{50} \times 100 = 20\%$$

∴ A shows maximum percentage of growth

S9. Ans.(b)

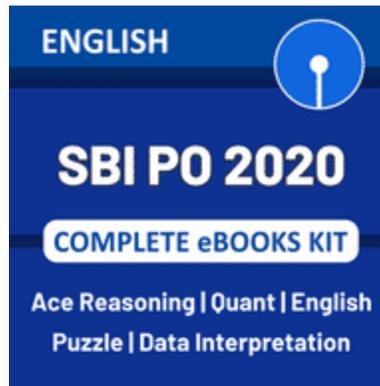
Sol.

Required percentage

$$= \frac{50 + 60}{50} \times 100$$

$$= \frac{110}{50} \times 100$$

$$= 220\%$$



S10. Ans.(e)

Sol.

Required ratio

$$= \frac{45 + 45}{55 + 55} = \frac{90}{110} = 9 : 11$$

S11. Ans.(d)

Sol.

Required percentage increase

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

S12. Ans.(a)

Sol.

Number of students enrolled in all the three district in the year 2014

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

$$= 21 \text{ thousands}$$

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

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

$$= 33 \text{ thousands}$$

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

$$= 12,000$$

S13. Ans.(b)

Sol.



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

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

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

$$\simeq 5.666 \text{ thousands}$$

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

S14. Ans.(c)

Sol.

The highest number of students may be in year 2013 or 2014 from the graph.

∴ Students enrolled in 2013

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

$$= [6 + 7 + 9]$$

$$= 22 \text{ thousands}$$

and students enrolled in 2014 = (8 + 6 + 7)

$$= 21 \text{ thousands}$$

∴ second highest enrolled students are in 2014

S15. Ans.(a)

Sol.

Total number of students enrolled in the year 2016 from district-P and Q

$$= (5 + 7)$$

$$= 12 \text{ thousands}$$

Number of students enrolled in District-P in 2014 = 8 thousands

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

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

$$= 150\%$$

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