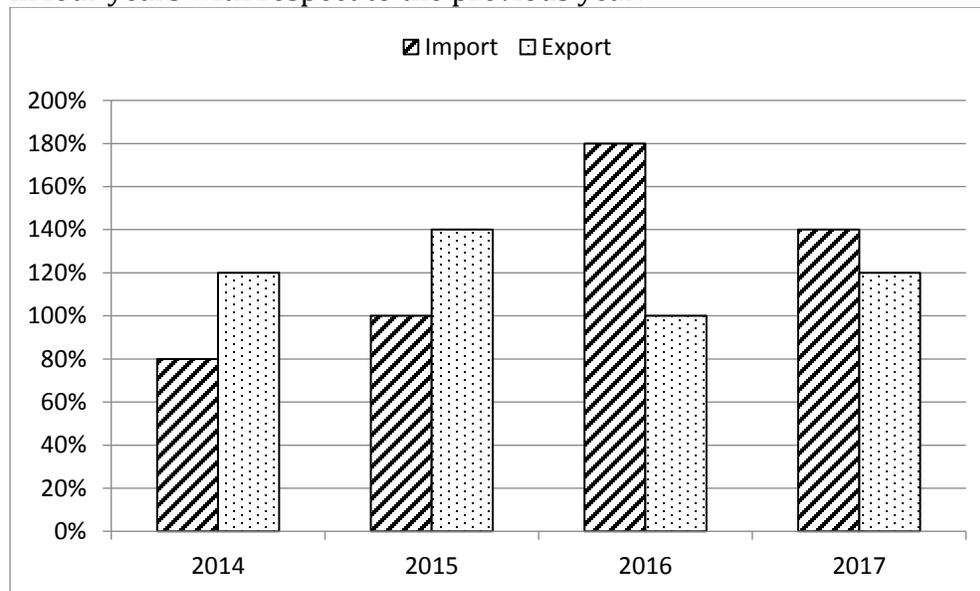


Quiz Date: 29<sup>th</sup> July 2020

Directions (1-5): Given bar graph shows the import and export (in percentage) of a country in four years with respect to the previous year.



Q1. If import and export of country are equal in 2017 then what is the ratio of import to export in 2015.

- (a) 20 : 16
- (b) 21 : 10
- (c) 10 : 21
- (d) None of these
- (e) 1 : 2

Q2. If country export 200mn in 2014 then what is the value of its export in 2016?

- (a) 220 mn
- (b) 280 mn
- (c) 560 mn
- (d) 250 mn
- (e) 420 mn

Q3. Value of export in 2014 is 20% less than that of import in 2014. Then value of export in 2015 is what percent of import in same year.

- (a) 114%
- (b) 90%
- (c) 88%
- (d) 100%
- (e) 112%

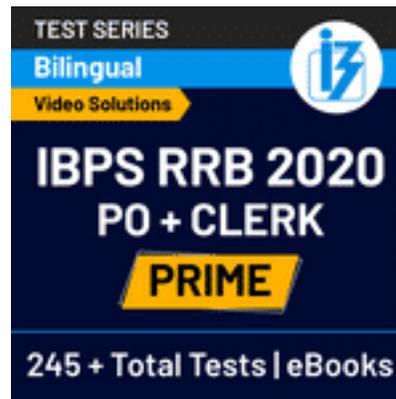
Q4. How much percent import of country increases from 2013 to 2017.

- (a) 101.6%

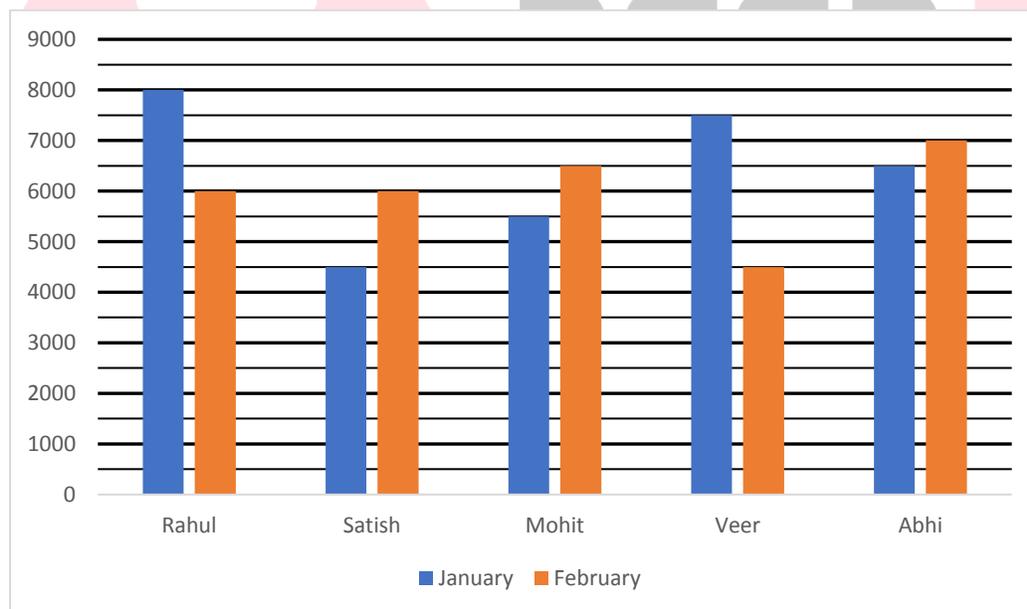
- (b) 201.6%
- (c) Can not be determined
- (d) 102.4%
- (e) 202.4%

Q5. Import in 2015 is 160 mn which is 80% of export in same year. What is the value of export in 2017.

- (a) 220 mn
- (b) 480 mn
- (c) 240 mn
- (d) 440 mn
- (e) None of these



**Directions (6-10):** Bar chart given below shows total number of pens sold by five different sellers in two different months. Study the data carefully and answer the following questions.



Q6. Total pens sold by Abhi in two months is what percent more than total pens sold by Satish and Veer together in January?

- (a) 50%

- (b) 37.5%
- (c) 25%
- (d) 12.5%
- (e) 6.25%

Q7. Out of total pens sold by Mohit, 35% are ball pens and rest are gel pens. If he sold 40% of total gel pens in January, then find number of ball pens sold in February?

- (a) 4200
- (b) 3120
- (c) 4680
- (d) 2380
- (e) 1820

Q8. If selling price of pens sold by Satish in January is Rs.5 each while in February it is Rs. 10 each. Find total amount Satish have after selling 40% pens in January and 25% pens in February?

- (a) 24,000
- (b) 30,000
- (c) 36,000
- (d) 21,000
- (e) 18,000

Q9. Find the ratio between total pens sold in January by all sellers to total pens sold in February by all sellers?

- (a) 8 : 7
- (b) 1 : 1
- (c) 16 : 15
- (d) 17 : 16
- (e) 17 : 15

Q10. Pens sold by Anurag in January is 20% more than that of pens sold by Rahul in same month while pens sold by Anurag in February is 25% more than that of pens sold by Satish in same month. Find total number of pens sold by Anurag in January and February together?

- (a) 17,100
- (b) 16,900
- (c) 16,700
- (d) 16,500
- (e) 16,300

Directions (11-15): The following table shows total no. of candidates appeared in DSSSB exam in five different years and also the ratio of male candidates to female candidates. Study the table and answer the questions.

Years	Total no. of appeared students	M : F
2001	54,000	5 : 4
2002	65,000	8 : 5
2003	68,500	3 : 2
2004	70,500	4 : 1
2005	72,000	7 : 5

Q11. The female candidates appeared in the year 2001 are approximately what percent of total no. of candidates appeared in the year 2002?

- (a) 40%
- (b) 48%
- (c) 50%
- (d) 55%
- (e) 37%

Q12. What is the average no. of male candidates appeared in the years 2002 and 2003 together?

- (a) 42,500
- (b) 40,550
- (c) 41,500
- (d) 43,500
- (e) 45,500

Q13. What is the difference between male candidates and female candidates appeared in the year 2004?

- (a) 40,000
- (b) 42,500
- (c) 42,300
- (d) 41,800
- (e) 45,200

Q14. In which year maximum no. of female candidates is appeared?

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

Q15. The no. of male candidates in the year 2003 is what percent more or less than the no. of female candidates in the year 2005?

- (a) 35%
- (b) 37%

- (c) 30%  
 (d) 33%  
 (e) 28%

### Solutions

#### S1. Ans.(c)

**Sol.**

Let import and export in 2017 be  $100x$

$$\text{Import in 2015} = \frac{100x}{140} \times \frac{100}{180} \times 100$$

$$= \frac{10000x}{252}$$

$$\text{Export in 2015} = \frac{100x \times 100 \times 100}{120 \times 100} = \frac{10000x}{120}$$

$$\text{Ratio} = \frac{120}{252} = \frac{10}{21}$$

$$= 10 : 21$$

#### S2. Ans.(b)

**Sol.**

Export in 2014 =  $200mn$

Export in 2016

$$= \frac{200 \times 140 \times 100}{100 \times 100} = 280 \text{ mn}$$

#### S3. Ans.(e)

**Sol.**

Let import in 2014 =  $100x$

$$\text{So, export} = \frac{100x \times 80}{100} = 80x$$

$$\text{Export in 2015} = \frac{80x \times 140}{100} = 112x$$

Import in 2015 =  $100x$

$$\text{Required \%} = \frac{112x}{100x} \times 100 = 112\%$$

#### S4. Ans.(a)

**Sol.**

Let import in 2013 =  $100x$

So, import in 2017

$$= \frac{100x \times 80}{100} \times \frac{100}{100} \times \frac{180}{100} \times \frac{140}{100}$$

$$= 201.6x$$

$$\text{Percentage Increase} = \frac{(201.6x - 100x)}{100x} \times 100$$

$$= 101.6\%$$

#### S5. Ans.(c)

**Sol.**



Import in 2015 = 160 mn

Export in 2015 =  $\frac{160}{80} \times 100 = 200$  mn

Export in 2017 =  $200 \times \frac{100}{100} \times \frac{120}{100} = 240$  mn

S6. Ans.(d)

Sol.

Total pens sold by Abhi in two months =  $6500 + 7000 = 13500$

Total pens sold by Satish and Veer in January =  $4500 + 7500 = 12000$

Required % =  $\frac{13500-12000}{12000} \times 100 = \frac{1500}{12000} \times 100 = 12.5\%$

S7. Ans.(e)

Sol.

Total pens sold by Mohit =  $5500 + 6500 = 12000$

Total ball pens sold =  $\frac{35}{100} \times 12000 = 4200$

Total gel pens sold =  $12000 - 4200 = 7800$

Total gels pens sold in February =  $7800 \times \frac{60}{100} = 4680$

Total ball pens sold in February =  $6500 - 4680 = 1820$

S8. Ans.(a)

Sol.

Required amount =  $5 \times \frac{40}{100} \times 4500 + 10 \times \frac{25}{100} \times 6000$   
 $= 9,000 + 15,000 = 24,000$

S9. Ans.(c)

Sol.

Total pens sold in January =  $8000 + 4500 + 5500 + 7500 + 6500 = 32,000$

Total pens sold in February =  $6000 + 6000 + 6500 + 4500 + 7000 = 30,000$

Required Ratio =  $\frac{32,000}{30,000} = \frac{16}{15}$

S10. Ans.(a)

Sol.

Total pens sold by Anurag =  $\frac{120}{100} \times 8000 + \frac{125}{100} \times 6000 = 9600 + 7500 = 17,100$

S11. Ans.(e)

Sol.

Required percentage

$$= \frac{\frac{4}{9} \times 54000}{65000} \times 100 \simeq 37\%$$

S12. Ans.(b)

Sol.

Required average no. of female candidates

$$= \frac{1}{2} \times \left( \frac{8}{13} \times 65000 + \frac{3}{5} \times 68500 \right)$$

$$= \frac{1}{2} \times 81,100$$

$$= 40,550$$

S13. Ans.(c)

Sol.

$$\begin{aligned} \text{Required difference} &= \frac{4-1}{5} \times 70,500 \\ &= 42,300 \end{aligned}$$



S14. Ans.(d)

Sol.

Female candidates in year

$$2001 \rightarrow \frac{4}{9} \times 54,000$$

$$\rightarrow 24,000$$

$$2002 \rightarrow \frac{5}{13} \times 65,000$$

$$\rightarrow 25,000$$

$$2003 \rightarrow \frac{2}{5} \times 68,500$$

$$\rightarrow 27,400$$

$$2004 \rightarrow \frac{1}{5} \times 70,500$$

$$\rightarrow 14,100$$

$$2005 \rightarrow \frac{5}{12} \times 72,000$$

$$\rightarrow 30,000$$

∴ Required year is 2005

S15. Ans.(b)

Sol.

Male candidates in year 2003

$$= \frac{3}{5} \times 68,500$$

$$= 41,100$$

Female candidates in year 2005

$$= \frac{5}{12} \times 72,000$$

$$= 30,000$$

∴ Required percentage

$$= \frac{41,100 - 30,000}{30,000} \times 100$$

$$= 37\% \text{ more}$$



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