

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

Directions (1-5): Table shows the marks obtained by Rishabh in five different subjects in 4 different years along with maximum marks of each subject. Study the following table to answer the questions that follows:

Years	Marks obtained by Rishabh in 5 different subjects in 4 years during B.Tech				
	Material Science (150)	Microprocessor (100)	Thermodynamics (150)	Mechanics (150)	Eng. Drawing (100)
2008	75	70	90	80	60
2009	100	75	100	100	75
2010	110	80	120	120	70
2011	120	85	120	130	80

Q1. Find total marks obtained by Rishabh in Material Science over all the four years.

- (a) 410
- (b) 305
- (c) 405
- (d) 415
- (e) 420

Q2. Find the percentage of total marks obtained by Rishabh in all subjects together in year 2009 (approximately)

- (a) 57%
- (b) 81%
- (c) 75%
- (d) 69%
- (e) 60%

Q3. Marks obtained in Microprocessor in year 2010 are approximately what percent of marks obtained in Thermodynamics in the same year by Rishabh?

- (a)  $61\frac{2}{3}\%$
- (b) 54%
- (c) 64%
- (d)  $55\frac{2}{3}\%$
- (e)  $66\frac{2}{3}\%$

Q4. In which subject Rishabh got maximum marks over all the four years together?

- (a) Thermodynamics and Mechanics
- (b) Material science
- (c) Microprocessor

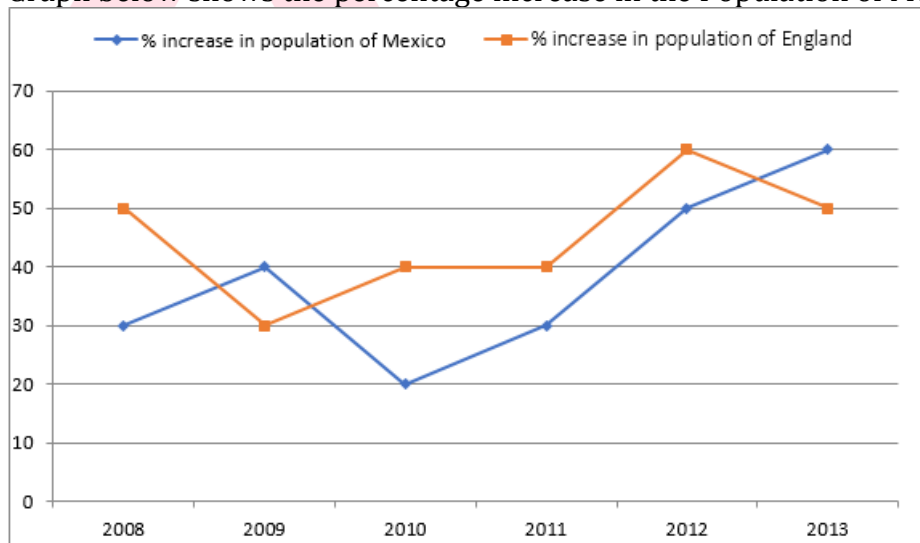
- (d) Eng. drawing  
(e) Mechanics

Q5. Marks obtained (in percentage) in Mechanics in year 2010 are approximately what percent more or less than marks obtained (in percentage) in Eng. Drawing in year 2011 by him.

- (a) 5%  
(b) 4%  
(c) 1%  
(d) 2%  
(e) 0%



Directions (6-10): Read the following graph and find the answer of the following questions  
Graph below shows the percentage increase in the Population of Mexico and England



**Note:** If the population in Mexico in the start of 2008 is 100 then the population of same in the start of 2009 is 130.

Q6. What is the population of Mexico at the starting of 2011 if the population of Mexico at the starting of 2009 is 3,50,000?

- (a) 5,60,000  
(b) 5,88,000

- (c) 5,78,000
- (d) 5,68,000
- (e) 5,98,000

Q7. What is the total population of Mexico & England at the end of 2011, if total population at the end of 2012 is 1,08,000 and at the end of 2013 is 1,68,000?

- (a) 50,000
- (b) 55,000
- (c) 60,000
- (d) 65,000
- (e) 70,000

Q8. If the population of England at the end of 2010 is 4,09,500 then what is the population of England at the starting of 2008?

- (a) 1,30,000
- (b) 1,40,000
- (c) 1,50,000
- (d) 1,60,000
- (e) None of these

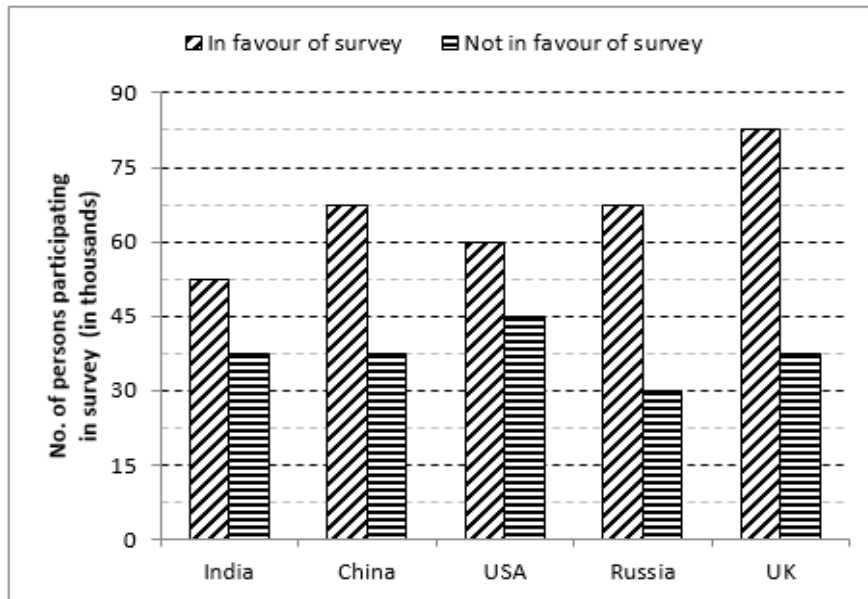
Q9. What is the average population of England and Mexico together at the end of 2011 if population of England and Mexico at the end of 2010 is 1,20,000 & 2,00,000 respectively?

- (a) 2,14,000
- (b) 2,18,000
- (c) 2,22,000
- (d) 2,26,000
- (e) 2,30,000

Q10. If the population of England at the end of 2013 is 3,60,000 then what is the population of England at the end of 2011 ?

- (a) 1,25,000
- (b) 1,30,000
- (c) 1,40,000
- (d) 1,50,000
- (e) 1,60,000

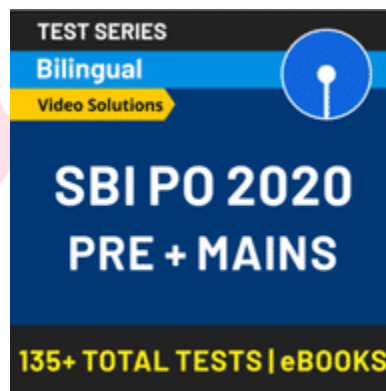
Directions (11-15): The following bar graph shows the total number of persons participating in a survey from 5 different countries in year 2016. Study the graph and answer the questions that follows:



Q11. What is the average number of persons who are in favour of survey in all the countries?

- (a) 66,000
- (b) 64,000
- (c) 62,500
- (d) 68,450
- (e) 74,250

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Q12. From which country, maximum number of persons have participated in survey?

- (a) India
- (b) UK
- (c) Russia
- (d) China
- (e) USA

Q13. The number of persons in favour of survey from India are what percent of number of persons in favour of survey from USA?

- (a) 92%
- (b) 95%
- (c) 87.5%

- (d) 82.5%  
(e) 88.25%

Q14. The number of persons not in favour of survey from China are what per cent more or less than the number of persons not in favour of survey from Russia?

- (a) 20% less  
(b) 20% more  
(c) 25% less  
(d) 25% more  
(e) 30% more

Q15. What is the ratio of number of persons in favour of survey from India and Russia together to the number of persons in favour of survey from China and UK together?

- (a) 4 : 5  
(b) 5 : 4  
(c) 3 : 5  
(d) 5 : 3  
(e) 2 : 5

Solutions

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S1. Ans.(c)

Sol.

Total marks obtained by Rishabh in Material science  
= 75 + 100 + 110 + 120  
= 405

S2. Ans.(d)

Sol.

$$\begin{aligned} &\text{Required percentage} \\ &= \frac{(100 + 75 + 100 + 100 + 75)}{(150 + 100 + 150 + 150 + 100)} \times 100 \\ &= 69.23\% \\ &\simeq 69\% \end{aligned}$$

S3. Ans.(e)

Sol.

$$\begin{aligned} &\text{Required percentage} \\ &= \frac{80}{120} \times 100 \\ &= 66\frac{2}{3}\% \end{aligned}$$

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S4. Ans.(a)

Sol.

From table we can see that the required subject is Thermodynamics and Mechanics.

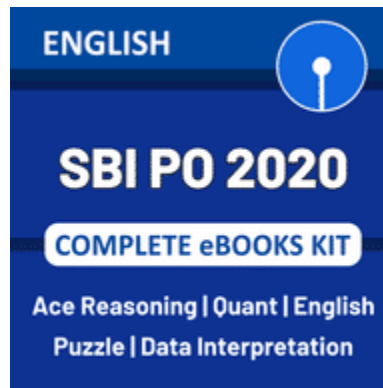
S5. Ans.(e)

Sol.

Required percentage

$$= \frac{\frac{120}{150} \times 100 - 80}{80} \times 100$$

$$= 0\%$$



S6. Ans.(b)

Sol.

Population of Mexico in 2011

$$= 3,50,000 \times \frac{140}{100} \times \frac{120}{100}$$

$$= 5,88,000$$

S7. Ans.(e)

Sol.

Let, Population of Mexico at the end of 2011 = x

Population of England at the end of 2011 = y

$$1.5x + 1.6y = 1,08,000 \quad \dots(i)$$

$$1.6 \times 1.5x + 1.5 \times 1.6y = 1,68,000$$

$$2.4x + 2.4y = 1,68,000 \quad \dots(ii)$$

On solving (i) & (ii) we get

$$x = 40,000 \quad y = 30,000$$

Total population of Mexico & England

together at the end of 2011 = 70,000

S8. Ans.(c)

Sol.

$$\begin{aligned} &\text{Population of England at the starting of 2008} \\ &= \frac{409500}{150 \times 130 \times 140} \times 100 \times 100 \times 100 \\ &= 1,50,000 \end{aligned}$$

S9. Ans.(a)

Sol.

$$\begin{aligned} &\text{Population of England at the end of 2011} \\ &= 1,20,000 \times \frac{140}{100} \end{aligned}$$

$$= 1,68,000$$

Population of Mexico at the end of 2011

$$= 2,00,000 \times \frac{130}{100}$$

$$= 2,60,000$$

Desired Average

$$= \frac{1,68,000 + 2,60,000}{2} = \frac{4,28,000}{2} = 2,14,000$$

S10. Ans.(d)

Sol.

Population of England in 2011

$$= \frac{3,60,000}{160 \times 150} \times 100 \times 100$$

$$= 1,50,000$$

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S11. Ans.(a)

Sol.

Required average

$$= 1/5 \times (52.5 + 67.5 + 60 + 67.5 + 82.5)$$

$$= 1/5 \times 330$$

$$= 66 \text{ thousand}$$

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S12. Ans.(b)

Sol.

From the graph we can say that the maximum no. of persons participating in survey are from UK i.e.  $82500 + 37500 = 120000$ .

S13. Ans.(c)

Sol.

Required percentage

$$= \frac{52.5}{60} \times 100 = 87.5\%$$

S14. Ans.(d)

Sol.

Required percentage

$$= \frac{37.5 - 30}{30} \times 100 = 25\% \text{ more}$$

S15. Ans.(a)

Sol.

Required ratio

$$= \frac{52.5 + 67.5}{67.5 + 82.5} = \frac{120}{150} = 4 : 5$$

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