

**Quiz Date: 28<sup>th</sup> June 2020**

**Directions (1-5):** Study the following information carefully and answer the given questions.

There are certain number of students studying in a school. In a survey it is found that 45.6% of total number of students like tea. 12.8% of total number of students like cold drink. 84.4% of total number of students like milk. 7% of students do not like any drink. 3.6% students like tea and cold drink. 10.2% of total students like cold drink and milk. 38.6% of total students like tea and milk. 2.6% students like all three drinks. Number of students who do not like any drinks is 35.

Q1. What is the number of students who like only milk?

- (a) 204
- (b) 180
- (c) 193
- (d) 191
- (e) 229

Q2. What is the number of students who like tea and cold drink but don't like milk?

- (a) 5
- (b) 8
- (c) 13
- (d) 12
- (e) 18

Q3. What is the number of students who like exactly two drinks out of the given three options?

- (a) 221
- (b) 223
- (c) 227
- (d) 229
- (e) 231

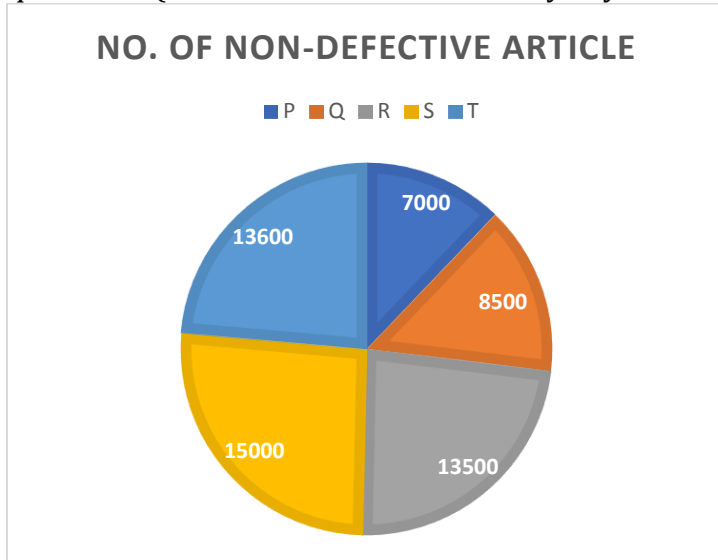
Q4. What is the number of students who like at least one drink?

- (a) 455
- (b) 465
- (c) 475
- (d) 485
- (e) 500

Q5. What is the number of students who like at least two drinks?

- (a) 232
- (b) 234
- (c) 236
- (d) 238
- (e) 240

**Directions (6-10):** - Pie chart given below shows no. of non-defective articles manufactured by five different firms i.e. P, Q, R, S and T. Read the data carefully and answer the following questions. (total article manufactured by any firm = defective + non-defective article)



Q6. No. of non-defective article manufactured by firm Q is what percent of no. of non-defective article manufactured by firm T?

- (a) 60%
- (b) 62.5%
- (c) 37.5%
- (d) 50%
- (e) 72.5%

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Q7. If ratio of non-defective to defective article manufactured by firm S is 75:2, then find ratio of non-defective article manufactured by firm T to defective article manufactured by firm S?

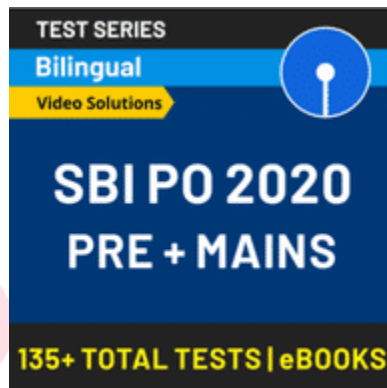
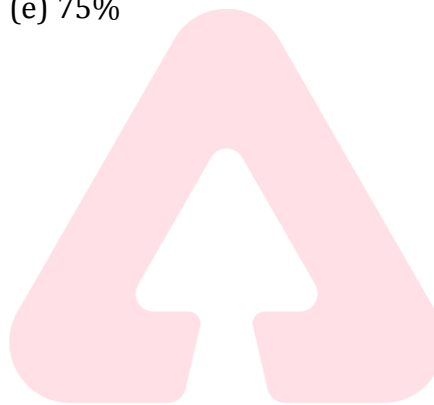
- (a) 37:1
- (b) 34:1
- (c) 33:1
- (d) 24:1
- (e) 38:1

Q8. Average of no. of non-defective article manufactured by firm Q and R is what percent of total no. of non-defective article manufactured by firm S?

- (a)  $72\frac{2}{3}\%$
- (b)  $66\frac{2}{3}\%$
- (c)  $33\frac{1}{3}\%$
- (d)  $73\frac{1}{3}\%$
- (e) None of these.

Q9. If no. of defective article manufactured by firm P and R are  $30\%$  and  $30\frac{10}{13}\%$  of total no. of article manufactured by each of these firm, then find no. of defective article manufactured by firm P is what percent more/ less than that by firm R?

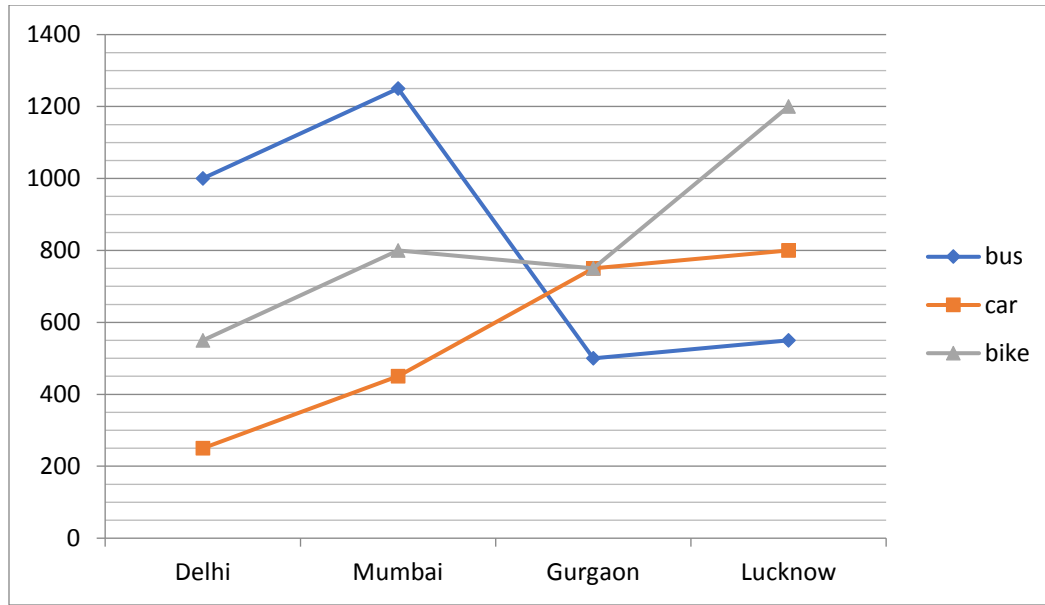
- (a) 20%
- (b) 15%
- (c) 50%
- (d) 25%
- (e) 75%



Q10. What is the ratio of non-defective article manufactured by firm Q and R together to that of P and S together?

- (a) 2:1
- (b) 1:1
- (c) 1:2
- (d) 1:3
- (e) 3:1

Direction(11-15): following DI show the number of people traveling in different cities by different mode of transport. Study the data carefully and answer the following question.



Q11. What is the difference between the average number of persons travelling from bus and average number of persons traveling with bike in all the cities?

- (a) 100
- (b) 200
- (c) 50
- (d) 0
- (e) 25

Q12. Person traveling in Gurgaon is what percent of person traveling in Mumbai?

- (a) 80%
- (b) 50%
- (c) 60%
- (d) 40%
- (e) None of these

Q13. What is the ratio of person traveling in Delhi to the person traveling in Lucknow?

- (a) 35:51
- (b) 36:37
- (c) 12:17
- (d) 12:51
- (e) 36:17

Q14. Number of people traveling in Gurgaon by bike is how much percent more or less than the person travelling by bus in the same city?

- (a) 30%
- (b) 40%
- (c) 55%
- (d) 50%
- (e) 60%

Q15. If on Monday the number of people traveling by car in Delhi is increased by 80% and number of people in Lucknow traveling by car is decreased by 50% then the number of people traveling in Delhi by car is what % more or less than the people traveling by car in Lucknow.

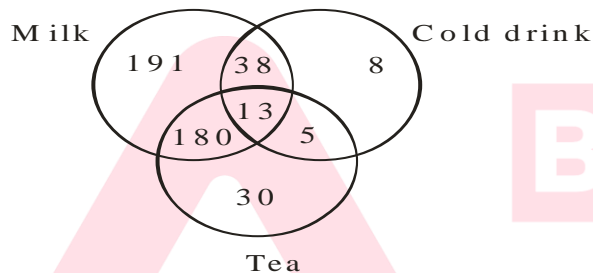
- (a) 25%  
 (b) 12.5%  
 (c) 30%  
 (d) 6.25%  
 (e) 20%

### Solutions

Sol (1-5):

Since number of Students who do not like any drinks=35

7% = 35 hence 100% = 500 (total no. of students)



S1. Ans.(d)

Sol. No. of students only like milk=191

S2. Ans.(a)

Sol. Students like only Tea & cold drink=5

S3. Ans.(b)

Sol. Students, exactly like two drinks=180+38+5=223

S4. Ans.(b)

Sol. Student, who like at least one drink=30+5+13+8+38+180+191=465

S5. Ans.(c)

Sol. Students who like at least two drink=5+38+13+180=236

S(6-10)

S6. Ans(b)

Sol. required percentage =  $\frac{8500}{13600} \times 100 = 62.5\%$

S7. Ans(b)

Sol. No. of defective article manufactured by firm S =  $\frac{15000}{75} \times 2 = 400$

Required ratio = 13600: 400  
= 34:1

S8. Ans(d)

Sol. Average no. of non-defective article manufactured by firm Q and R =  $\frac{1}{2} \times (8500 + 13500) = 11000$

Required percentage =  $\frac{11000}{15000} \times 100 = 73\frac{1}{3}\%$



S9. Ans(c)

Sol.  $30\% = \frac{3}{10}$  and  $30\frac{10}{13}\% = \frac{4}{13}$

Let total no. of article manufactured by firm P and R are  $10x$  and  $13y$  respectively.

So, non-defective article manufactured by firm P =  $10x \times \frac{7}{10} = 7x$

Non-defective article manufactured by firm R =  $13y \times \frac{9}{13} = 9y$

ATQ

defective article manufactured by firm P =  $\frac{7000}{7x} \times 3x = 3000$

defective article manufactured by firm R =  $\frac{13500}{9y} \times 4y = 6000$

required percentage =  $\frac{(6000-3000)}{6000} \times 100 = 50\%$

S10. Ans(b)

Sol. Required ratio =  $(8500 + 13500) : (7000 + 15000)$   
= 1:1

S11. Ans(d)

Sol. Average person travelling with bus =  $\frac{1000+1250+500+550}{4} = \frac{3300}{4} = 825$

Average person travelling with bike =  $\frac{550+800+750+1200}{4} = \frac{3300}{4} = 825$

Required difference =  $825-825=0$

S12. Ans(a)

Sol. Person travelling in Gurgaon =  $500+750+750= 2000$

Person travelling in Mumbai =  $1250 + 450+ 800=2500$

$$\text{required percentage} = \frac{2000}{2500} \times 100 = 80\%$$

S13.Ans(c)

$$\begin{aligned} \text{Sol. Total person travelling in Delhi} & : \text{ total person travelling in Lucknow} \\ = 1000+250+550 & : 550+800+1200 \\ = 1800 & : 2550 \\ = 12 & : 17 \end{aligned}$$

S14.Ans(d)

Sol. Person travelling in Gurgaon by bike = 750  
Person travelling in Gurgaon by bus = 500

$$\therefore \text{required percentage} = \frac{750-500}{500} \times 100 = 50\%$$

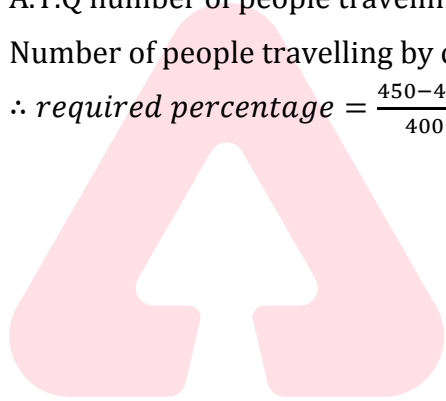
S15. Ans(b)

Sol.

$$\text{A.T.Q number of people travelling by car in Delhi on Monday} = 250 \times \frac{180}{100} = 450$$

$$\text{Number of people travelling by car in Lucknow on Monday} = 800 \times \frac{50}{100} = 400$$

$$\therefore \text{required percentage} = \frac{450-400}{400} \times 100 = 12.5\%$$



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