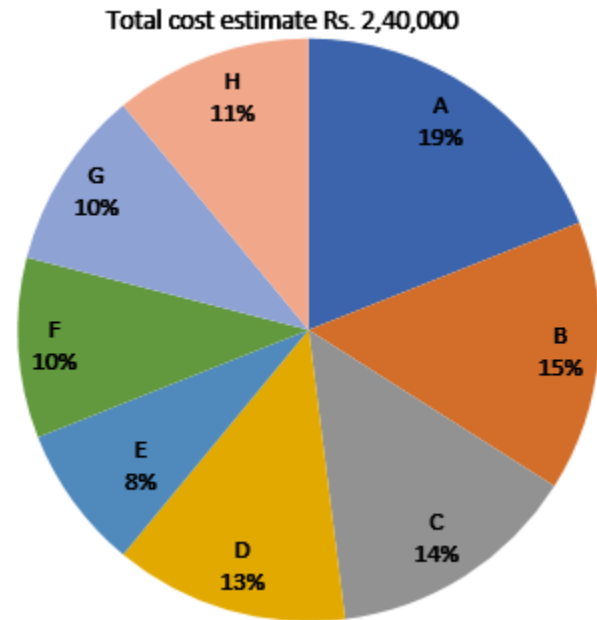


Quiz Date: 18th May 2020

Directions (1-5): Study the following Pie chart carefully and answer the questions given below.

Cost estimated by Gagan for various expenditures to be made by him in his sister's marriage.



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Q1. During the marriage ceremony Gagan actually incurs expenditure on E of Rs. 20,400. The actual expenditure on E incurred by Gagan is what percent of the total estimated cost?

- (a) 9.5
- (b) 9
- (c) 8.5
- (d) 10.5
- (e) 12.5

Q2. Other than getting a discount of 12% on the estimated cost for D and the actual expenditure on E of Rs. 20,400 instead of the estimated, Gagan's estimated cost is correct. What is the total expenditure (in Rs.) of Gagan in marriage ceremony?

- (a) 237456
- (b) 231852
- (c) 239000
- (d) 233000
- (e) 242950

Q3. What is the difference in the amount estimated by Gagan for A and H (In Rs.)?

- (a) 20,000
- (b) 19000
- (c) 14400

- (d) 18000
(e) 19200

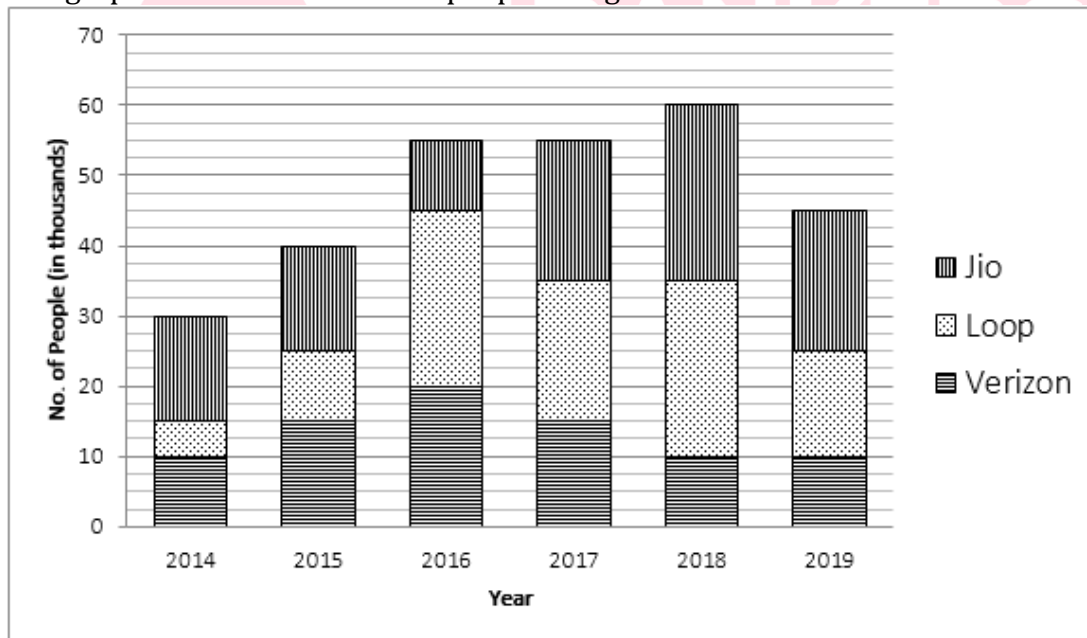
Q4. What is the cost estimated by Gagan for B and C together (In Rs.)?

- (a) 73,000
(b) 69,600
(c) 72,000
(d) 69,000
(e) 66,900

Q5. Gagan get a discount on D and pays 12% less than the estimated cost for it. What is the amount spent on D (In Rs.)?

- (a) 26400
(b) 29052
(c) 27052
(d) 27456
(e) 27645

Directions (6-10): Study the given graph carefully to answer the questions that follow.
The graph shows the number of people using mobile services of three different companies.



Q6. What is the average number of people using mobile service of Loop for all the years together (in thousand)?

- (a) $16\frac{2}{3}$
(b) $14444\frac{1}{6}$
(c) $16666\frac{2}{3}$

- (d) $14\frac{1}{6}$
(e) $18\frac{2}{3}$

Q7. The total number of people using all the three mobile services in the year 2017 is what per cent of the total number of people using all the three mobile services in the year 2018? (rounded off to two digits after decimal)

- (a) 89.72%
(b) 93.46 %
(c) 88.18%
(d) 91.67%
(e) 79.46%



Q8. The number of people using mobile service of Jio in the year 2016 forms approximately what per cent of the total number of people using all the three mobile services in that year?

- (a) 18%
(b) 26 %
(c) 11%
(d) 23%
(e) 29%

Q9. What is the ratio of the number of people using mobile service of Verizon in the year 2015 to that of those using the same service in the year 2014?

- (a) 8 : 7
(b) 3 : 2
(c) 19 : 13
(d) 15 : 11
(e) 7 : 8

Q10. What is the total number of people using mobile service of Loop in the years 2018 and 2019 together?

- (a) 35,000
(b) 30,000
(c) 45,000
(d) 25,000
(e) 40,000

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

Given below is the table which shows the total number of voters in 5 villages, percentage of voters who voted and number of females, who have not voted.

Village	Total voters	% of voters who voted	No. of females who do not vote
A	12,000	85%	750
B	14,000	90%	1,250
C	18,000	92%	1,000
D	8,000	75%	1,500
E	10,000	80%	700

Q11. What is the ratio of men who do not vote from village B and C together to the men who do not vote from village A and D together?

- (a) 59 : 155
- (b) 61 : 63
- (c) 95 : 119
- (d) 47 : 63
- (e) 21 : 43

Q12. What is the difference between average of female who do not vote from village A, B and C to the average of male who do not vote from village A, D and E?

- (a) 40
- (b) 45
- (c) 50
- (d) 30
- (e) 55

Q13. Total females from all the villages together who do not vote is what percent of total voters from village C and D together.

- (a) 15%
- (b) 12%
- (c) 10%
- (d) 18%
- (e) 20%

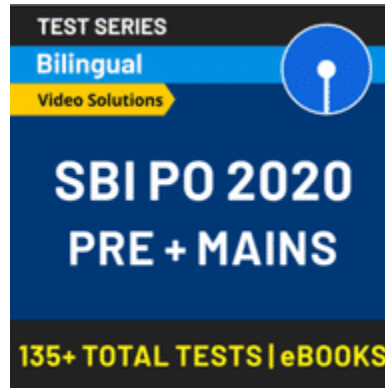
Q14. If voters from village A increases by 20% and females who do not vote increases by $\frac{100}{3}\%$ then men who do not vote increases or decrease by what percent consider % of voters who vote remain same. (approximate)

- (a) 10%
- (b) 18%

- (c) 17%
- (d) 13%
- (e) 15%

Q15. Men who do not vote out of total voters is maximum for which village?

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



Solutions

S1. Ans.(c)

Sol.

$$\text{Required percentage} = \frac{20400}{240000} \times 100 = 8.5$$

S2. Ans.(a)

Sol. Estimated cost for E = 8% of 240000 = 19200

Total expenditure of Gagan = 240000 - 19200 + 20400 - 12% of 13% of 240000

= Rs. 237456

S3. Ans. (e)

Sol. Required difference = (19-11)% of 240000 = 19200

S4. Ans.(b)

Sol. Required cost = (15+14)% of 240000 = 69600

S5. Ans.(d)

Sol. Amount spent on D = (100 - 12)% of 13% of 240000 = 27456

S6. Ans.(c)

Sol.

Average

$$= \frac{1}{6} \times [5 + 10 + 25 + 20 + 25 + 15] \times 1000$$

$$= \frac{100000}{6} = 16666\frac{2}{3}$$

S7. Ans.(d)

Sol.

$$\text{Required \%} = \frac{55}{60} \times 100 = 91.67\%$$

S8. Ans.(a)

Sol.

$$\text{Required \%} = \frac{10}{55} \times 100 = 18\% \text{ (approx.)}$$

S9. Ans.(b)

Sol. Required Ratio = 15 : 10 = 3 : 2

S10. Ans.(e)

Sol. Required no. of people = (25 + 15) × 1000 = 40000

S11. Ans.(a)

Sol.

Men who do not vote from B and C together

$$= \frac{10}{100} \times 14000 - 1250 + \frac{8}{100} \times 18000 - 1000$$

$$= 1400 - 1250 + 1440 - 1000$$

$$= 150 + 440$$

$$= 590$$

Men who do not vote from village A and D together

$$= \frac{15}{100} \times 12000 - 750 + \frac{25}{100} \times 8000 - 1500$$

$$= 1800 - 750 + 2000 - 1500 = 1550$$

$$\text{Required ratio} = \frac{59}{155}$$

S12. Ans.(c)

Sol.

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Average of female who do not vote
from A, B and C together

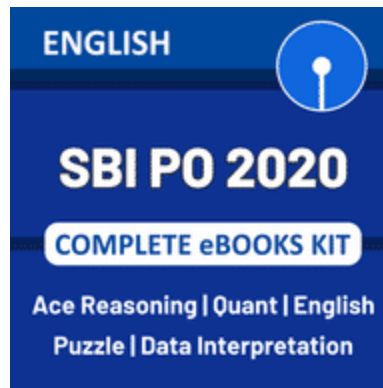
$$= \frac{750 + 1250 + 1000}{3} = 1000$$

Average of men who do not vote
from A, D and E together

$$= \frac{\frac{15}{100} \times 12000 - 750 + \frac{25}{100} \times 8000 - 1500 + \frac{20}{100} \times 10,000 - 700}{3}$$

$$= \frac{1050 + 500 + 1300}{3} = \frac{2850}{3}$$

$$\text{Required difference} = 1000 - \frac{2850}{3} = \frac{150}{3} = 50$$



S13. Ans.(e)

Sol.

Required percentage

$$= \frac{750 + 1250 + 1000 + 1500 + 700}{26000} \times 100$$

$$= \frac{5200}{2600} = 20\%$$

S14. Ans.(a)

Sol.

Total voter in A after increment = 14400

Total females who do not vote after increment = 1000

Men who do not vote from A after increment

$$\begin{aligned} &= \frac{15}{100} \times 14400 - 1000 \\ &= 2160 - 1000 \\ &= 1160 \end{aligned}$$

Required percentage

$$\begin{aligned} &= \frac{1160 - (15 \times 120 - 750)}{(15 \times 120 - 750)} \times 100 \\ &= \frac{110}{1050} \times 100 \approx 10\% \end{aligned}$$

S15. Ans.(e)

Sol.

From A, Men who do not voted = 1050

From B, Men who do not voted = 150

From C, Men who do not voted = 440

From D, Men who do not voted = 500

From E, Men who do not voted = 1300

