

Solutions- Easy Test

Solutions for questions 1 to 4:

- (c) : In the two years, 2018 & 2019, the required percentage is more than 25 % but it happened in 2011 for the first time.
- (d) : The greatest decline happened for Course 4 which is $= \frac{18 - 6}{18} \times 100 = 66\%$
- (c) : Percentage of Course 1.candidates as a percentage of total:

Year	Percentage
2016	$\frac{160}{460} \times 100 = 34.78\%$
2017	$\frac{200}{640} \times 100 = 31.25\%$
2018	$\frac{250}{715} \times 100 = 34.96\%$
2019	$\frac{150}{600} \times 100 = 25\%$
2021	$\frac{140}{720} \times 100 = 19.44\%$
2022	$\frac{160}{810} \times 100 = 19.75\%$

It is the highest for the year 2011.

- (d) : Total admission for each course:
Course 2 = $40 + 80 + 95 + 100 + 110 + 130 = 555$,
Course 5 = $100 + 140 + 180 + 200 + 250 + 300 = 1170$,
Course 4 = $14 + 18 + 10 + 6 + 12 + 16 = 76$,
Course 3 = $80 + 120 + 120 + 110 + 150 + 130 = 710$.

Solutions for questions 5 to 8:

- (d) : No details about Party 3 is given.
- (b) : Difference from previous year is 54 as is obvious from the given bar chart.
- (a) : Total votes in 2009 $= (2.24/44.8) \times 100 = 5$ crore

Total Votes in 1999 = $(1.228/30.7) \times 100 = 4$ crore
 4 cr. is 20% less than 5 cr.

8. (b) : As data for other parties is not known

Solutions for questions 9 to 12:

9. (c) : Percentage change in R2 Sales

$$= \frac{\frac{26}{100} \times 10200 - \frac{26}{100} \times 2400}{\frac{26}{100} \times 2400} \times 100 = 183\%$$

10. (a) : R3

$$= \frac{26}{100} \times 10200 - \frac{26}{100} \times 2400 = 2028 \text{ ton}$$

$$R4 = \frac{25}{100} \times 10200 - \frac{26}{100} \times 2400 = 2046 \text{ ton}$$

$$R5 = \frac{24}{100} \times 10200 - \frac{26}{100} \times 2400 = 1812 \text{ ton}$$

11. (d) :

$$\text{Ratio} = \frac{\frac{2.1}{100} \times 2400}{\frac{17}{100} \times 10200} = 0.29$$

12. (c) : Required Ratio

$$= \frac{\text{Increase in R4}}{\text{Increase in R3}} = \frac{2046}{2028} = 1$$

Solutions for questions 13 to 16:

13. (a) : **Month** $\frac{C3}{(C2 + C4)}$

$$\text{January} \quad \left(\frac{75}{100 + 200} \right) = 25\%$$

$$\text{February} \quad \left(\frac{75}{100 + 175} \right) = 27.27\%$$

$$\text{March} \quad \left(\frac{100}{125 + 250} \right) = 26.66\%$$

$$\text{April} \quad \left(\frac{100}{150 + 300} \right) = 22.22\%$$

$$\text{May} \quad \frac{50}{75 + 175} = 20\%$$

$$\text{June} \quad \frac{75}{100 + 275} = 20\%$$

Hence, the required percentage was the most in the month of February.

14. (d) : Month	$\frac{C1}{\text{Total Sales}} \times 100$
January	$\left(\frac{175}{550}\right) \times 100 = 31.31\%$
February	$\left(\frac{150}{500}\right) \times 100 = 30\%$
March	$\left(\frac{225}{700}\right) \times 100 = 32.14\%$
April	$\left(\frac{250}{800}\right) \times 100 = 31.25\%$
May	$\left(\frac{150}{450}\right) \times 100 = 33.33\%$
June	$\left(\frac{200}{650}\right) \times 100 = 30.7\%$

No month have sales more than 33.33%. Hence option (d)

15. (b) : Month	$\frac{C3}{\text{Total Sales}} \times 100$
January	$\frac{75}{550} \times 100 = 13.6\%$
February	$\frac{75}{500} \times 100 = 15\%$
March	$\frac{100}{700} \times 100 = 14.28\%$
April	$\frac{100}{800} \times 100 = 12.5\%$
May	$\frac{50}{450} \times 100 = 11.11\%$
June	$\frac{75}{650} \times 100 = 11.53\%$

In February and June.

16. (c) : Verify the choices one by one.
 (a) The total sales of all the four companies was different in each month, hence (a) is false.
 (b) For the given period:
 Total Sales of C1 = $175 + 150 + 225 + 250 + 150 + 200 = 1150$.
 Total Sales of C3 = $75 + 75 + 100 + 100 + 50 + 75 = 475$.
 Hence, (b) is false.
 (c) Total Sales of C2 for the given period = 650
 Required percentage

$$= \frac{650}{1150 + 475 + 1375 + 650} = 17.8\%$$

- (d) The sales of C2 were less than the sales of C4 in each month. Hence, (d) is false

Solutions for questions 17 to 20:

17. (c) : Shown of Printing is 8 % of the total cost. Here $100\% = 360^\circ$. So, $1\% = 3.6^\circ$.

So, central angle = $8 \times 3.6 = 28.8^\circ$

18. (a) : Let the total cost of writing the book is x .
So, 12 % of $x = 14400$, Cost of Others = 15% of Total cost = 15 % of 1,20,000 = 18,000.
19. (b) : Let the total cost is 100, then Publishing cost = 35% of 100 = 35 & Marketing Cost = 30 % of 100 = 30. So, by the Publishing cost is 16.66% more than the Marketing cost.
20. (c) : Let the total cost is 100, then Marketing cost = 30, New Marketing cost after the increase of 20% = $1.2(30) = 36$, New Total cost = 106. So, the percentage shown of Marketing cost
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