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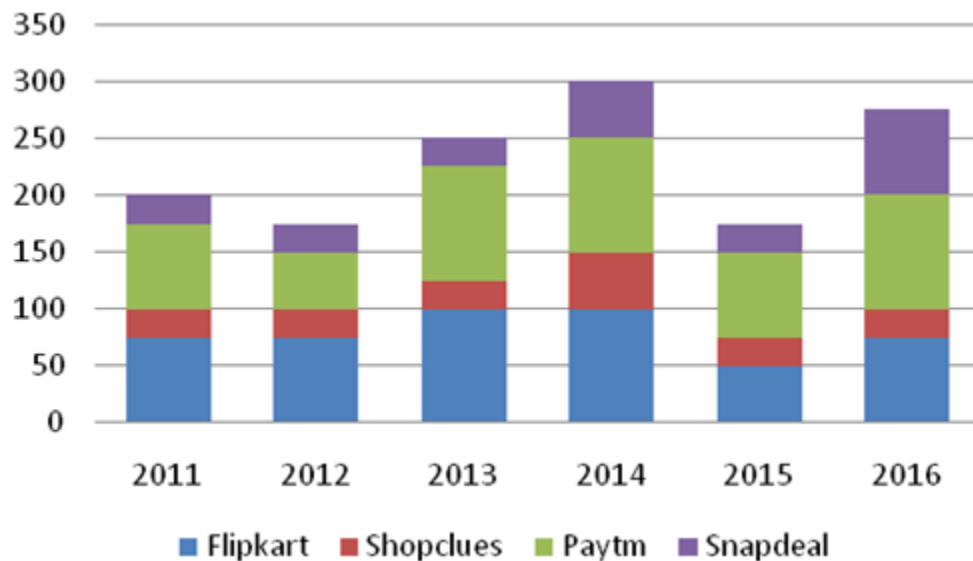☑ **Excellent Content**
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Date Interpretation Bar Graph Questions for IBPS PO Mains, SBI PO Mains and RBI Grade B Exams.

DI Bar Chart Quiz 33

Directions: Study the graph carefully and answer the following questions.

The yearly sales turnover of e-commerce companies Flipkart, Shopclues, Paytm and Snapdeal in crores from 2011 to 2016.

1. In which of the following years is Paytm's profit the highest, if it makes 25% profit on its sales turnover in each year?

A. 2015   B. 2011 and 2015   C. 2012, 2015 and 2016
D. 2013, 2014 and 2016   E. None of these

2. In which of the given years is the sales turnover of Flipkart as a percentage of the combined sales turnover of Shopclues and Snapdeal the least?

A. 2016   B. 2013   C. 2011   D. 2015   E. 2012

3. In how many years was the sales turnover of Paytm more than one-third of the total sales turnover of the four companies?

A. One year   B. Three years   C. Five years   D. Six years   E. None of these

4. In how many years, from 2012 to 2016, did the sales turnover of Flipkart as a percentage of the total sales turnover of the four companies increases over that of its immediate preceding year?

A. One   B. Two   C. Three   D. Four   E. None of these

5. Which of the following statements must be true?

A. The sales of Snapdeal, as a percentage of total sales, were the same for four years
B. The ratio of the total sales of Paytm to the total sales of Flipkart, from 2011 to 2016 was 19 : 20
C. The total sales of Shopclues from 2011 to 2016 were approximately 12.7% of the total sales of all the four companies for given period.
D. For each year, the sales of Shopclues were always more than the sales of Snapdeal.
E. None of the above is true

Correct Answers:

1	2	3	4	5
D	A	E	A	C

Explanations:

1. As the profit percentage in each year is the same, Paytm will have the maximum profit in that year which has the maximum sales turnover.

Year Sales Turnover
2011 175 – 100 = Rs. 75 Crores
2012 150 – 100 = Rs. 50 Crores
2013 225 – 125 = Rs. 100 Crores
2014 250 – 150 = Rs. 100 Crores
2015 150 – 75 = Rs. 75 Crores
2016 200 – 100 = Rs. 100 Crores

Hence, option D is a correct choice.

2.

Year $\dfrac{\text{Flipkart}}{(\text{Shopclues + Snapdeal})}$

2011 $\dfrac{75}{25 + 25} = \dfrac{75}{50} = \dfrac{3}{2} = 1.5$

2012 $\dfrac{75}{25 + 25} = \dfrac{75}{50} = \dfrac{3}{2} = 1.5$

2013 $\dfrac{100}{25 + 25} = \dfrac{100}{50} = 2$

2014 $\dfrac{100}{50 + 50} = \dfrac{100}{100} = 1$

| 2015 | $\dfrac{50}{25+25} = \dfrac{50}{50} = 1$ |

| 2016 | $\dfrac{75}{25+75} = \dfrac{75}{100} = \dfrac{3}{4} = 0.75$ |

Hence, the required percentage was the least in the year 2016.
Hence, option A is correct.

3.

| Year | $\dfrac{\text{Paytm}}{\text{Total Sales}} \times 100$ |

| 2011 | $\dfrac{75}{200} \times 100 = 37.5\%$ |

| 2012 | $\dfrac{50}{175} \times 100 \cong 28.56\%$ |

| 2013 | $\dfrac{100}{250} \times 100 = 40\%$ |

| 2014 | $\dfrac{100}{300} \times 100 = 33\dfrac{1}{3}\%$ |

| 2015 | $\dfrac{75}{175} \times 100 \cong 42.9\%$ |

| 2016 | $\dfrac{100}{275} \times 100 \cong 36.4\%$ |

Hence, it is during four years - 2011, 2013, 2015 & 2016 (% values greater than 33.33%) that the turnover of Paytm is more than one third of the total sales. (The year 2014 is not counted, as Paytm's sales was exactly one-third of the total sales, not more than one-third) Hence, option E is correct.

4.

Year	$\dfrac{\text{Flipkart}}{\text{Total Sales}} \times 100$
2011	$\dfrac{75}{200} \times 100 = 37.5\%$
2012	$\dfrac{75}{175} \times 100 \cong 42.9\%$
2013	$\dfrac{100}{250} \times 100 \cong 40\%$
2014	$\dfrac{100}{300} \times 100 \cong 33.3\%$
2015	$\dfrac{50}{175} \times 100 \cong 28.6\%$
2016	$\dfrac{75}{275} \times 100 \cong 27.3\%$

An increase in sales over a preceding year took place only from 2011 to 2012 i.e. from 37.5% to 42.86%
Hence, option A is the correct answer.

5. Verifying the options one by one
From option A: During four years, the total sales of Snapdeal were the same, i.e. 25 crores, but as the total sales of all four companies
was different in each year, hence option A is false.

From option B: For the given period,

Total sales of Paytm = 75 + 50 + 100 + 100 + 75 + 100 = 500.
Total sales of Flipkart = 75 + 75 + 100 + 100 + 50 + 75 = 475.
The required ratio is 500 : 475 = 20 : 19, not 19 : 20. Hence option B is false

From option C: Total sales of all the four companies for given period
= 200 + 175 + 250 + 300 + 175 + 275 = 1375

Total sales of Shopclues for the given period. = 25 × 5 + 50 = 175

Reqd. % = $\dfrac{175}{1375} \times 100 = 12.72\%$

From option D: The sales of Shopclues were less than the sales of Snapdeal in 2016, Hence option D is false.
Hence, option C is correct.