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DI table Chart Questions for SBI Clerk Pre, IBPS Clerk Pre, LIC Assistant Pre and IBPS RRB Assistant Pre Exams.

DI Table Chart No. 44

Directions: Study the following table chart carefully and answer the questions given beside.

The questions are based on the following table chart which represents the advertisement expenditure (in Rs. Crores) of a trading company from 2005-06 to 2010-11 on four of its products P, Q, R and S.

	P	Q	R	S
2005-06	50	100	50	25
2006-07	25	75	50	25
2007-08	50	100	100	25
2008-09	100	25	0	25
2009-10	50	100	100	50
2010-11	100	50	125	25

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Sales for the given years are as follows:

2005-06	Rs. 600 crores
2006-07	Rs. 750 crores
2007-08	Rs. 800 crores
2008-09	Rs. 450 crores
2009-10	Rs. 900 crores
2010-11	Rs. 1000 crores

Profit = Sales – Advertising expenditure

1. In which year is the product Q's profit the highest, if its sales form 20% of the total sales every year?

A. 2006 – 07 B. 2007 – 08 C. 2010 – 11 D. 2009 – 10 E. 2008 – 09

2. Among the given years, the advertising expenditure of product S as a percentage of the advertising expenditure of P and R together is least in

A. 2005 – 06 B. 2010 – 11 C. 2009 – 10 D. 2008 – 09 E. 2007 – 08

3. **If the ratio of sales of the products P,Q,R and S in the year 2010-11 is 2 : 5 : 1 : 2, then the profit of S is what percentage of the profit of Q in the same year?**

A. 33% B. 38.88% C. 45.38% D. 42.5% E. 22.85%

4. **In 2011-12, the sales of the company decreases by 30%. Total advertising expenses for 2011-12 grow at the same rate as they did from the total advertising expenses 2009-10 to 2010-11. What is the profit for 2011-12?**

A. Rs. 400 crores B. Rs. 300 crores C. Rs. 520 crores D. Rs. 700 crores E. Rs. 600 crores

5. **If the advertising expenditure for all the products in the year 2006-07 is halved and that in 2010-11 is doubled and for the other years it remains the same, then during which year is the profit the least?**

A. 2009 – 10 B. 2006 – 07 C. 2005 – 06 D. 2010 – 11 E. 2008 – 09

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Correct Answers:

1	2	3	4	5
C	B	B	A	E

Explanations :

1. Sales of product Q for the given years are as follows:

2006 – 07 = 20% of 750 = Rs.150 crores

2007 – 08 = 20% of 800 = Rs. 160 crores

2008 – 09 = 20% of 450 = Rs. 90 crores

2010 – 11 = 20% of 1000 crores = Rs. 200 crores

Profit of Q for given years :

2006 – 07 = 150 – 75 = 75 crores

2007 – 08 = 160 – 100 = 60 crores

2008 – 09 = 90 – 25 = Rs. 65 crores

2010 – 11 = 200 – 50 = Rs. 150 crores

Profit is maximum in year 2010 – 11

Hence, Option C is correct.

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2.

In 2005 – 06 = $\frac{25}{100} = \frac{1}{4}$

In 2006 – 07 = $\frac{25}{75} = \frac{1}{3}$

In 2008 – 09 = $\frac{25}{100} = \frac{1}{4}$

In 2009 – 10 = $\frac{50}{150} = \frac{1}{3}$

In 2007 – 08 = $\frac{25}{150} = \frac{1}{6}$

In 2010 – 11 = $\frac{25}{225} = \frac{1}{9}$

The advertising expenditure of S as a percentage of advertising expenditure of P and R is least in 2010 - 11.

Hence, option B is correct.

3. Sales of the product P, Q, R and S in 2010-11 are Rs. 200, 500, 100 and 200 crores respectively.

Profit of Q = 500 – 50 = 450

Profit of S = 200 – 25 = 175

$$\text{Reqd. \%} = \frac{175 \times 100}{450} = 38.88\%$$

Hence, Option B is correct.

4. Sales in 2011-12 = 1000(0.7) = Rs. 700 crores

Total advertising expenditure in 2009-10 = Rs. 300 crores

Total advertising expenditure in 2010-11 = Rs. 300 crores

So there is no growth, so the expenditure remains same.

So, the advertising expenditure in 2011-12 = Rs. 300 crores

Profit = (700 – 300) = 400 crores

Hence, Option A is correct.

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5. As the expenditure in the years in 2006-07 and 2010-11 is changed, profit in these years will be

$$\text{2006-07} = 750 - \frac{175}{2} = \text{Rs. } 662.5 \text{ crores}$$

2010-11 = 1000 – 600 = Rs. 400 crores

Profit in other years is as follows:

2008-09 = 450 – 150 = Rs. 300 crores

2009-10 = 900 -300 = Rs. 600 crores

The profit is least in the year 2008-09.

Hence, Option E is correct.

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