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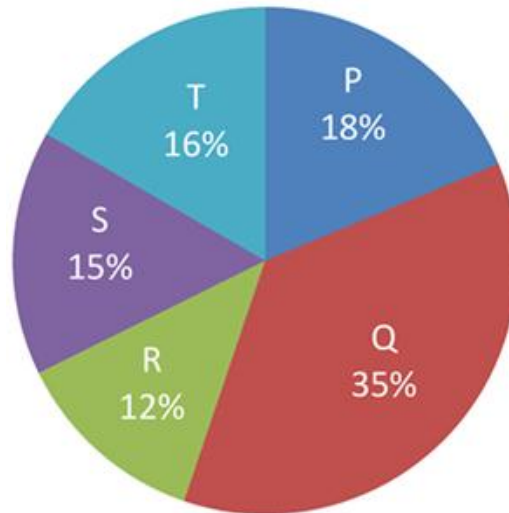- ☑ **Excellent Content**
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Date Interpretation Pie Chart Questions for IBPS PO Pre, SBI PO Pre and IBPS RRB Exams.

DI Pie Chart Quiz 27

Directions: Study the following pie chart carefully & answer the questions given below it.

The following chart shows the percentage purchase of 5 different people P, Q, R, S and T done for upcoming festivals.

No. of total items purchased = 4700

1. What is the difference between the total purchase of items made by R and T together and the total purchase of items made by P and S together?

A. 237   B. 235   C. 335   D. 245   E. None of these

2. What is the ratio of the total purchase made by P, R and T together to that of S and Q together?

A. 23 : 25   B. 25 : 27   C. 31 : 33   D. 13 : 15   E. None of these

3. If Q pays Rs. 6300 for his total purchase then how much money P has to pay for his purchase?

A. 1240   B. 2260   C. 3644   D. 3240   E. None of these

4. Total purchase made by R is what percent less than the purchase made by S?

A. 10   B. 15   C. 20   D. 25   E. None of these

5. Find the central angle of the purchase made by S ?

A. 45°   B. 54°   C. 67°   D. 50°   E. None of these

Correct Answers:

1	2	3	4	5
B	A	D	C	B

Explanations:

1. Total purchase of items made by R = 12% of total purchase
Total purchase of items made by T = 16% of total purchase
Similarly,
Total purchase made by P = 18% of total purchase
Total purchase made by S = 15% of total purchase
Reqd. difference = (15% + 18%) of total purchase - (16% + 12%) of total purchase = (33% - 28%) of total purchase = 5% of total purchase
= 5% of 4700 = 235.
Hence, option B is correct.

2. Total purchase made by P, R and T together = (18 + 12 + 16)% of total purchase = 46% of total purchase
And the total purchase made by S and Q together = (15 + 35)% of total purchase = 50% of total purchase

$\therefore$ Reqd. ratio = $\dfrac{46\% \text{ of total purchase}}{50\% \text{ of total purchase}} = \dfrac{46}{50}$

= 23 : 25.
Hence, option A is correct.

3. If Q pays 6300 for 35% purchase
Let, P pays Rs. x for 18% purchase
Therefore, 35% ≡ 6300
18% ≡ x

$x = \dfrac{6300 \times 18}{35} = 3240$

Hence, P has to pay Rs. 3240 for their purchase.
Hence, option D is correct.

4. Total purchase percentage of R = 12%
And the total purchase percentage of S = 15%

Reqd. % = $\dfrac{15 - 12}{15} \times 100 = \dfrac{3}{15} \times 100 = 20\%$

Hence, R is 20% less than S.
Therefore, option C is correct.

5. As, we know that the whole pie is 360°

therefore, 15% will be 15% of 360 = $\dfrac{15}{100} \times 360 = 54°$

Hence, option B is correct.