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Date Interpretation Pie Chart Questions for Bank PO Exams.

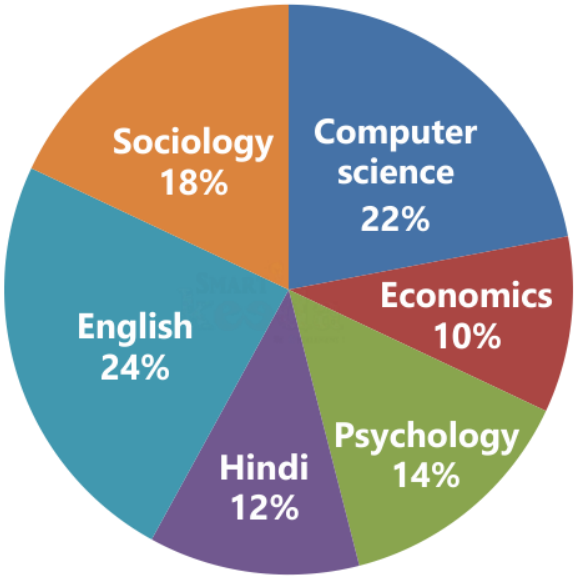
DI Pie Chart Quiz 17

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

1st Pie Chart shows: % of Professor and Assistant Professor together teaching six different subjects in University 'X'

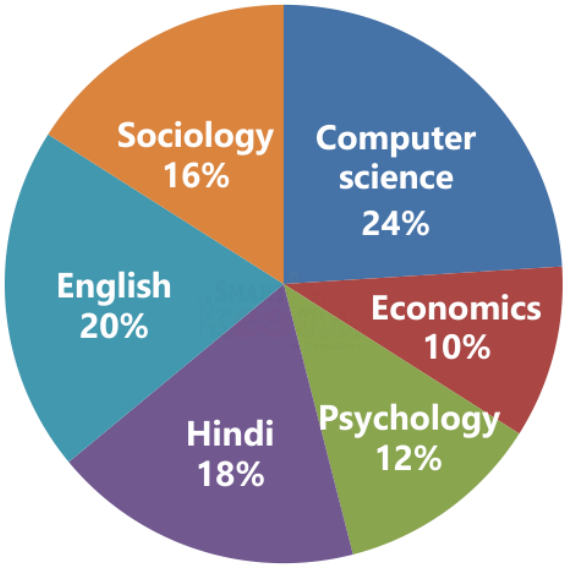
2nd Pie Chart shows: % of Professor teaching six different subjects in University 'X'

Chart I



Total number = 150

Chart II



Total number = 50

1. If the ratio of the total number of male Professors to the total number of female Professors is 9 : 16 and the ratio of the total number of male Assistant Professors to the total number of female Assistant Professors is 9 : 11, what is the total number of female Professors and Assistant Professor teaching the given six subjects in University 'X'?

A. 63 B. 90 C. 77 D. 73 E. 87

2. What is the central angle corresponding to the total number of Professors and Assistant Professors teaching Hindi?

A. 46.8° B. 50.4° C. 43.2° D. 39.6° E. 45.2°

3. What percent Professors are teaching Psychology and Sociology together out of the total number Professors and Assistant Professors teaching these two subjects together?

A. $29\frac{1}{6}\%$ B. $24\frac{1}{4}\%$ C. $25\frac{5}{6}\%$ D. $21\frac{3}{4}\%$ E. $22\frac{1}{6}\%$

4. The total number of Assistant Professors teaching Economics and English together is what percent more than the total number of Professors teaching these two subjects together?

A. 138% B. 145% C. 130% D. 142% E. 140%

5. What is the average number of Professors teaching Computer science, Psychology, English and Sociology?

A. 9 B. 8 C. 10 D. 11 E. 17

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Correct Answers:

1	2	3	4	5
E	C	A	E	A

Explanations:

1. Total no. of Assistant Professors = 150 – 50 = 100

Now, female Professors = $50 \times \frac{16}{25} = 32$

Female Assistant Professors = $\frac{11}{20} \times 100 = 55$

Total no. of female Professors and Assistant Professors = 32 + 55 = 87
Hence, option E is correct

2.

Reqd. central angle = $\frac{12 \times 360}{100} = 12 \times 3.6 = 43.2°$
Hence, option C is correct.

3. Total no. of Professors and Assistant Professor teaching Psychology and Sociology together = (18 + 14)% = 32% of 150

Now, 32% of 150 = $\frac{32 \times 150}{100} = 48$

Total no. of Professors teaching Psychology and Sociology together = (16 + 12) % = 28% of 50 = 14.

Reqd. % = $\frac{14}{48} \times 100 = \frac{7 \times 25}{6} = \frac{175}{6} = 29\frac{1}{6}\%$
Hence, option A is correct.

4. Total no. of Professor teaching Economics and English together = (20 + 10)% = 30% of 50 = $\frac{30 \times 50}{100} = 15$

Total no. of Assistant Professors teaching Economics and English together = (24 + 10) = 34% of 150 – 15

= $\frac{34 \times 150}{100} - 15 = 51 - 15 = 36$

Reqd. % more = $\frac{36 - 15}{15} \times 100 = \frac{21}{15} \times 100 = 140\%$ more
Hence, option E is correct.

5.

Reqd. average = $\frac{(24 + 12 + 20 + 16)\% \text{ of } 50}{4}$

= $\frac{72\% \text{ of } 50}{4} = \frac{72 \times 50}{100 \times 4} = 9$
Hence, option A is correct.

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