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Data Interpretation Mixed Chart Quiz 22

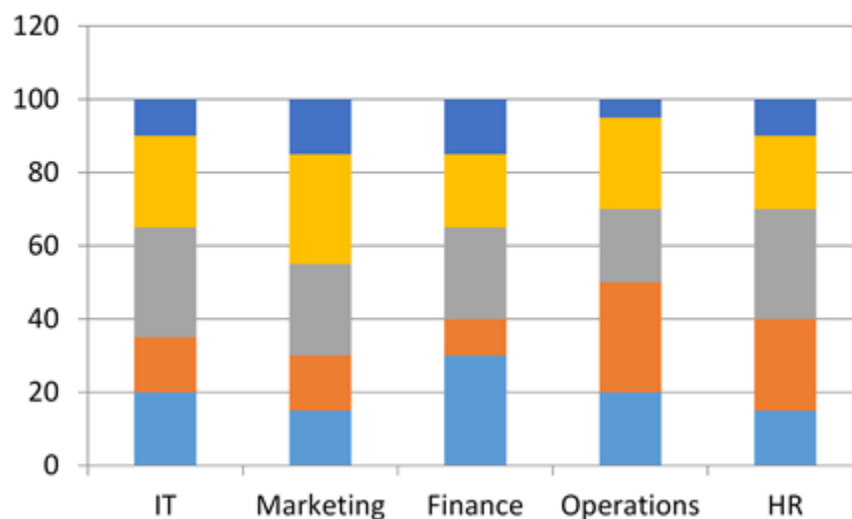
Direction: Study the following pie chart and bar chart carefully and answer the questions based on it.

The given pie chart shows the percentage distribution of the employees of different departments in a Multi-National Company (MNC) in the year 2016.



The given bar graph shows the percentage of employees in the same MNC of different age groups in different departments.

All Percentages are multiple of 5



1. The number of employees of age group 35 – 40 in Finance department is what percent more or less than the number of employees of age group 25 – 30 in Operations department?

- A. 150% B. 140% C. 133.33% D. 160% E. Can't be determined

2. Find the difference of number of employees in IT department of age group more than 45 and number of employees in Operations department of age group 40 – 45 if total employees in the MNC are 3000.

- A. 100 B. 45 C. 80 D. 25 E. 35

3. Find the total no. of employees in MNC of age group more than 45 years from all the departments together form what percent of total employees in MNC?

- A. 21.5% B. 27% C. 17.5% D. 11.5% E. None of these

4. All the employees of age group more than 45 years from Finance department retire from their post and the same number of new employees join the same department of age group 30 – 35 years. If number of retired employees is 150, then find the number of employees in Finance department of age group 30 – 35 years.

- A. 420 B. 450 C. 500 D. 275 E. 250

5. If the total number of employees in IT department of age group 25 – 30 is 60, then find the total number of employees in Marketing department of age group 40 – 45.

- A. 2.671 B. 2.81 C. 2.973 D. 3.043 E. 3.117

Correct Answers:

1	2	3	4	5
A	B	D	E	D

Explanations:

1. Let total employees in MNC is x.

Number of employees of age group 35 – 40 in Finance department = 25% of 20% of x

Number of employees of age group 25 – 30 in Operations department = 20% of 10% of x

$$\text{Reqd. \%} = \frac{25\% \text{ of } 10\% \text{ of } x - 20\% \text{ of } 10\% \text{ of } x}{20\% \text{ of } 10\% \text{ of } x} \times 100$$

$$= \frac{50 - 20}{20} \times 100 = 150\%$$

Hence, option (A) is correct.

2. Number of employees in IT department of age group more than 45 = 10% of 40% of 3000 = 120

Number of employees in Operations department of age group 40 – 45 = 25% of 10% of 3000 = 75

Required difference = 120 – 75 = 45

Hence, option (B) is correct.

3. Let total employees = x

Number of employees of age group more than 45 years in IT department = 10% of 40% of x = 0.04x

Number of employees of age group more than 45 years in Marketing = 15% of 20% of x = 0.03x

Number of employees of age group more than 45 years in Finance = 15% of 20% of x = 0.03x

Number of employees of age group more than 45 years in Operations = 5% of 10% of x = 0.005x

Number of employees of age group more than 45 years in HR department = 10% of 10% of x = 0.01x

Total employees of age group more than 45 years = 0.04x + 0.03x + 0.03x + 0.005x + 0.01x = 0.115x

$$\text{Reqd. \%} = \frac{0.115x}{x} \times 100 = 11.5\%$$

Hence, option (D) is correct.

4. Since 15% of total employees in Finance department are retired and same number of employees join.

So total per cent of employees in Finance department of age group 30 – 35 = 10% + 15% = 25%

Given that –

15% = 150

So 25% = 250

Hence total employees of age group 30 – 35 in Finance department after retirement = 250

Therefore, option (E) is correct.

5.

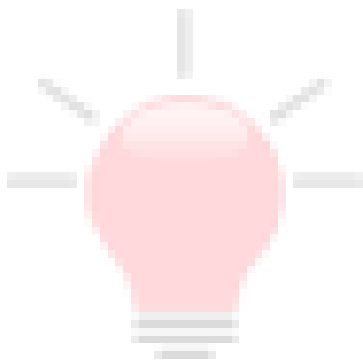
$$\text{No. of employees in IT dept.} = 60 \times \frac{100}{20} = 300$$

$$\text{No. of emp. in Marketing dept.} = 300 \times \frac{20}{40} = 150$$

Number of employees in Marketing department of age group 40 – 45 = 30% of 150 = 45

Hence, option (D) is correct.

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