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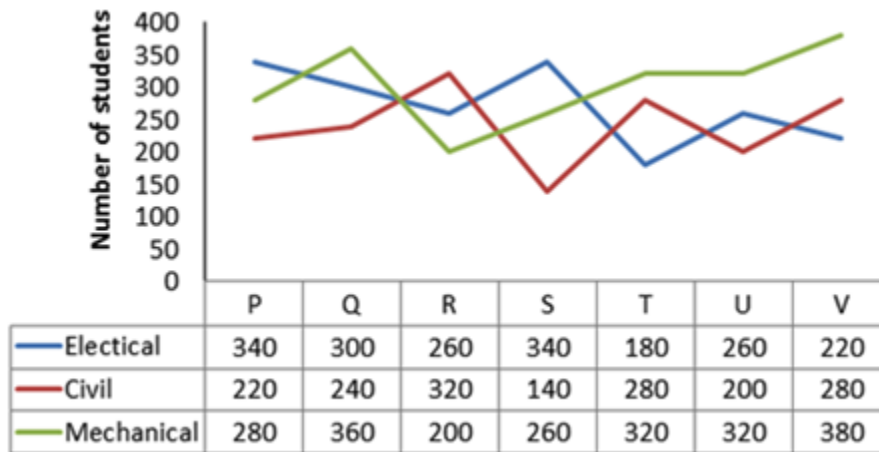
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Date Interpretation Line Chart Questions for IBPS PO Pre, SBI PO Pre, SBI Clerk Mains and IBPS Clerk Mains

DI Line Chart Quiz 18

Direction : Study the following line graph carefully to answer the questions that follow.

Strength of seven technology institutes with specialization in Electrical, Civil and Mechanical in 2012



1. If the no. of students with Mechanical specialization in each institute increased by 20% and the no. of students with Civil specialization in each institute decreased by 15% from 2012 to 2013, the total no. of students with Mechanical from all the institutes in 2013 is approximately what per cent of the total no. of students with Civil specialization from all the institutes in 2013?

- A. 122 B. 116 C. 162 D. 132 E. 178

2. What is the ratio of the total no. of students in institute R to that in V?

- A. 39 : 43 B. 39 : 44 C. 37 : 44 D. 39 : 45 E. 38 : 43

3. What is the difference between the total no. of students with Electrical specialization from all the institutes together and the total no. of students with Mechanical specialization from all the institutes together?

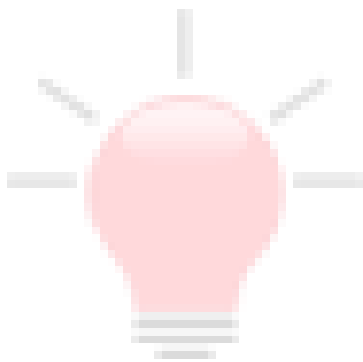
- A. 260 B. 240 C. 280 D. 220 E. 250

4. If the no. of students in institutes P, Q and R with Electrical specialization increased by 15%, 22% and 10% respectively from 2012 to 2013, what was the total no. of students with Electrical specialization in the three institutes together in 2013?

- A. 1028 B. 1056 C. 1043 D. 1142 E. 1145

5. If out of the total no. of students for all three specializations together in Institute Q, the no. of students having liking for Music, Painting and Cricket are in the ratio of 5 : 6 : 7, then what is the no. of students having liking for Music from this institute?

- A. 250 B. 300 C. 350 D. 280 E. 360



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Correct Answers:

1	2	3	4	5
E	B	D	C	A

Explanations:

1. Total number of students with Mechanical specialization in 2013

$$= 120\% \text{ of } 280 + 120\% \text{ of } 360 + 120\% \text{ of } 200 + 120\% \text{ of } 260 + 120\% \text{ of } 320 + 120\% \text{ of } 320 + 120\% \text{ of } 380 \\ = 336 + 432 + 240 + 312 + 384 + 384 + 456 = 2544$$

Total number of students with Civil specialization in 2013

$$= 85\% \text{ of } 220 + 85\% \text{ of } 240 + 85\% \text{ of } 320 + 85\% \text{ of } 140 + 85\% \text{ of } 280 + 85\% \text{ of } 200 + 85\% \text{ of } 280 \\ = 187 + 204 + 272 + 119 + 238 + 170 + 238 = 1428$$

$$\therefore \text{Reqd. \%} = \frac{2544}{1428} \times 100 = 178.15 \approx 178\%$$

Hence, option (E) is correct.

2.

$$\text{Reqd. ratio} = \frac{200 + 260 + 320}{220 + 280 + 380} = \frac{780}{880} = 39 : 44$$

Hence, option (B) is correct.

3. Number of students with Electrical specialization = $340 + 300 + 260 + 340 + 180 + 260 + 220 = 1900$

Number of students with Mechanical specialization = $280 + 360 + 200 + 260 + 320 + 320 + 380 = 2120$

$$\therefore \text{Difference} = 2120 - 1900 = 220$$

Hence, option (D) is correct.

4. Total number of students in Institutes P, Q and R with Electrical specialization in 2013

$$\Rightarrow \frac{340 \times 115}{100} + \frac{300 \times 122}{100} + \frac{260 \times 110}{100}$$

$$= 3.40 \times 115 + 3 \times 122 + 2.60 \times 110 = 391 + 366 + 286 = 1043$$

Hence, option (C) is correct.

5. Total number of students in Institute Q = $240 + 300 + 360 = 900$

The number of students liking music from Institute Q

$$= \frac{900 \times 5}{18} = 250$$

Hence, option (A) is correct.



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