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Date Interpretation Table Chart Questions for SBI PO Pre, IBPS PO Pre, SBI Clerk Mains and IBPS Clerk Mains Exams.

DI Table Chart Quiz 84

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

The data related to three core branches of engineering in five different IITs are given in the table.

	Number of students in Mechanical Engineering	Ratio of students in Civil to Mechanical Engineering	Ratio of students in Electrical to Civil Engineering
IIT Delhi	1080	17 : 20	32 : 27
IIT Bombay	1420	11 : 10	19 : 22
IIT Kharagpur	1640	36 : 41	23 : 18
IIT Kanpur	1260	31 : 28	49 : 45
IIT Madras	1584	13 : 16	34 : 39

1. Find the difference between the number of students of Electrical engineering of IIT Delhi to that of IIT Bombay.

- A. 311 B. 221 C. 261 D. 321 E. 291

2. 35% and 20% of total students of Civil engineering of IIT Kharagpur are studying in 1st year and in 2nd year respectively while the ratio of number of students studying in 1st year, 2nd year, 3rd year, and 4th year in Civil Engineering in IIT Kanpur is 7:9:8:7 respectively. The total number of students studying in 1st year and in 2nd year together in Civil in IIT Kanpur is approximately what percent of the total number of students studying in 1st year and in 2nd year together in Civil in IIT Kharagpur?

- A. 86% B. 91% C. 96% D. 82% E. 76%

3. If the ratio of the number of students in Electronics to Mechanical in IIT Bombay and IIT Kanpur is 4:5 and 71:70 respectively, then find the ratio of the number of students in Electronics in IIT Bombay to that in IIT Kanpur.

- A. 8 : 9 B. 7 : 9 C. 5 : 6 D. 6 : 5 E. 9 : 8

4. The total number of students of Civil Engineering of all the given colleges is approximately what percent of the total number of students of Mechanical Engineering of all the given colleges?

- A. 91% B. 95% C. 84% D. 112% E. 103%

5. The total number of students in Computer Science in IIT Kharagpur, IIT Kanpur, and IIT Madras together is 286 more than the total number of students in Electrical in the same colleges together. Find the total number of students in Computer Science in IIT Kharagpur, IIT Kanpur, and IIT Madras together.

- A. 4197 B. 5257 C. 4357 D. 4767 E. 4987

Correct Answers:

1	2	3	4	5
C	B	A	B	D

Explanations:

1. Total number of students in Electrical engineering in IIT Delhi

$$= \frac{32}{27} \times \frac{17}{20} \times 1080 = 1088$$

$$\text{Total number of students in Electrical engineering in IIT Bombay} = \frac{19}{22} \times \frac{11}{10} \times 1420 = 1349$$

$$\text{Required difference} = 1349 - 1088 = 261$$

Hence, option C is correct.

2. Total number of students studying in 1st year in Civil in IIT Kharagpur

$$= 35\% \text{ of } \frac{36}{41} \times 1640 = 504$$

$$\text{Total number of students studying in 2nd year in Civil in IIT Kharagpur} = 20\% \text{ of } \frac{36}{41} \times 1640 = 288$$

$$\text{Total number of students studying in 1st year in Civil in IIT Kanpur} = \frac{7}{31} \times \frac{31}{28} \times 1260 = 315$$

$$\text{Total number of students studying in 2nd year in Civil in IIT Kanpur} = \frac{9}{31} \times \frac{31}{28} \times 1260 = 405$$

$$\text{Reqd. \%} = \frac{315 + 405}{504 + 288} \times 100 \approx 91\%$$

Hence, option B is correct.

3. Total number of students in Electronics in IIT Bombay

$$= \frac{4}{5} \times 1420 = 1136$$

$$\text{Total number of students in Electronics in IIT Kanpur} = \frac{71}{70} \times 1260 = 1278$$

Required ratio = 8 : 9

Hence, option A is correct.

4. Number of students in civil in IIT Delhi

$$= \frac{17}{20} \times 1080 = 918$$

$$\text{Number of students in civil in IIT Bombay} = \frac{11}{10} \times 1420 = 1562$$

$$\text{Number of students in civil in IIT Kharagpur} = \frac{36}{41} \times 1640 = 1440$$

$$\text{Number of students in civil in IIT Kanpur} = \frac{31}{28} \times 1260 = 1395$$

$$\text{Number of students in civil in IIT Madras} = \frac{13}{16} \times 1584 = 1287$$

Total number of students in civil in all five colleges = 918 + 1562 + 1440 + 1395 + 1287 = 6602

Total number of students in Mechanical in all five colleges = 1080 + 1420 + 1640 + 1260 + 1584 = 6984

$$\text{Reqd. \%} = \frac{6602}{6984} \times 100 \approx 95\%$$

Hence, option B is correct.

5. Total number of students in Electrical in IIT Kharagpur

$$= \frac{36}{41} \times \frac{23}{18} \times 1640 = 1840$$

$$\text{Total number of students in Electrical in IIT Kanpur} = \frac{31}{28} \times \frac{49}{45} \times 1260 = 1519$$

$$\text{Total number of students in Electrical in IIT Madras} = \frac{13}{16} \times \frac{34}{39} \times 1570 = 1122$$

Total number students in Computer Science in IIT Kharagpur, IIT Kanpur, and IIT Madras together = 1840 + 1519 + 1122 + 286 = 4767

Hence, option D is correct.



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