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DI table Chart Questions for SBI Clerk Mains, IBPS Clerk Mains, RBI Assistant Mains, LIC AAO, SBI PO Pre, IBPS PO Pre and RRB Scale I Pre Exams.

DI Table Chart No. 105

Directions: Study the following tab le chart carefully and answer the questions given beside.

Table shows the percentage of students of 4 departments – Mechanical, Civil, Computer Science and Applied with each student in only one department.

The table also shows the number of students in five different colleges of 4 different departments with total students being 2130.

College	Students	Mechanical	Civil	Computer Science	Applied
IIT Delhi	450	-	18%	-	28%
IIT Kanpur	380	15%	-	30%	-
IIT Bombay	-	18%	20%	-	32%
IIT Madras	-	-	25%	18%	35%
IIT Guwahati	350	20%	22%	-	20%

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1. What is the total number of students in Computer Science departments of IIT Kanpur and IIT Guwahati?

A. 237 B. 227 C. 287 D. 247 E. None of these

2. If in IIT Delhi, students who are studying in Applied department are 40% more than the students in the Mechanical department, then what is the number of students who are studying in Computer Science in IIT Delhi?

A. 133 B. 153 C. 173 D. 143 E. 183

3. If number of students in IIT Bombay is 10% less than the number of students in IIT Madras, then what is the difference between the total number of students who study in Applied department in these 2 colleges and who study in Civil department in these 2 colleges?

A. 114 B. 104 C. 204 D. 134 E. 124

4. **If number of students in IIT Bombay is 10% less than the number of students in IIT Madras, then in which college the total students who study in Civil and Applied departments is most?**

A. Delhi B. Kanpur C. Bombay D. Madras E. Guwahati

5. **If in IIT Kanpur, number of students who study in Applied department is 19 more than the number of students who study in Computer Science department in IIT Guwahati , then what is the number of students who study in Civil department in IIT Kanpur?**

A. 67 B. 57 C. 77 D. 87 E. 27

Correct Answers:

1	2	3	4	5
D	B	B	D	B

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Explanations :

1. In IIT Guwahati the percentage of the Computer Science students is = 100 – (20 + 22 + 20) = 38%

The reqd. answer = $\frac{380 \times 30}{100} + \frac{350 \times 38}{100}$

= (38 × 3) + (38 × 3.5) = 38 × 6.5 = 247

Hence, option D is correct.

2. Let percentage of students who study in Mechanical in IIT Delhi be x%.

∴ Students in Applied department are 140% of that.

$\Rightarrow x \times \frac{140}{100} = 28 \Rightarrow x = 20$

∴ Percentage of students who study Computer Science is = 100 – (20 + 18 + 28) = 34%

∴ The number of students who are studying in Computer Science in IIT Delhi

$\Rightarrow \frac{450 \times 34}{100} = 153$

Hence, option B is correct.

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3. Total students in Bombay and IIT Madras = 2130 – (450 + 380 + 350) = 950

∴ If in IIT Madras students is x, then in Bombay = $\frac{90x}{100}$

$\therefore x + \frac{90x}{100} = 950 \Rightarrow x = 500$

∴ In Madras = 500

And in Bombay = $\frac{90}{100} \times 500 = 450$

$\therefore$ Reqd. difference = $\left[\frac{32}{100} \times 450 + \frac{35}{100} \times 500\right] - \left[\frac{20}{100} \times 450 + \frac{25}{100} \times 500\right]$

$= \left[\frac{12}{100} \times 450\right] + \left[\frac{10}{100} \times 500\right] = 104$

Hence, option B is correct.

4. Total students in Bombay and IIT Madras = 2130 – (450 + 380 + 350) = 950

∴ If in IIT Madras students is x, then in Bombay = $\frac{90x}{100}$

∴ $x + \frac{90x}{100} = 950 \Rightarrow x = 500$

∴ In Madras = 500

And in Bombay = $\frac{90}{100} \times 500 = 450$

Delhi = $\frac{18 + 28}{100} \times 450 = 207$

Kanpur = $\frac{55}{100} \times 380 = 209$

Bombay = $\frac{20 + 32}{100} \times 450 = 234$

Madras = $\frac{25 + 35}{100} \times 500 = 300$

Guwahati = $\frac{22 + 20}{100} \times 350 = 147$

Hence, option D is correct.

5. Percentage of students who study in Computer Science in Guwahati

$\Rightarrow 100 – (20 + 22 + 20) = 38\%$

Number of students who study in Computer Science in Guwahati

$\Rightarrow \frac{38}{100} \times 350 = 133$

∴ Number of students who study in Applied in Kanpur = (133 + 19) = 152

∴ Number of students who study in Civil department in IIT Kanpur

$\Rightarrow 380 - \left[152 + \frac{(15 + 30)}{100} \times 380\right] = 57$

Hence, option B is correct.

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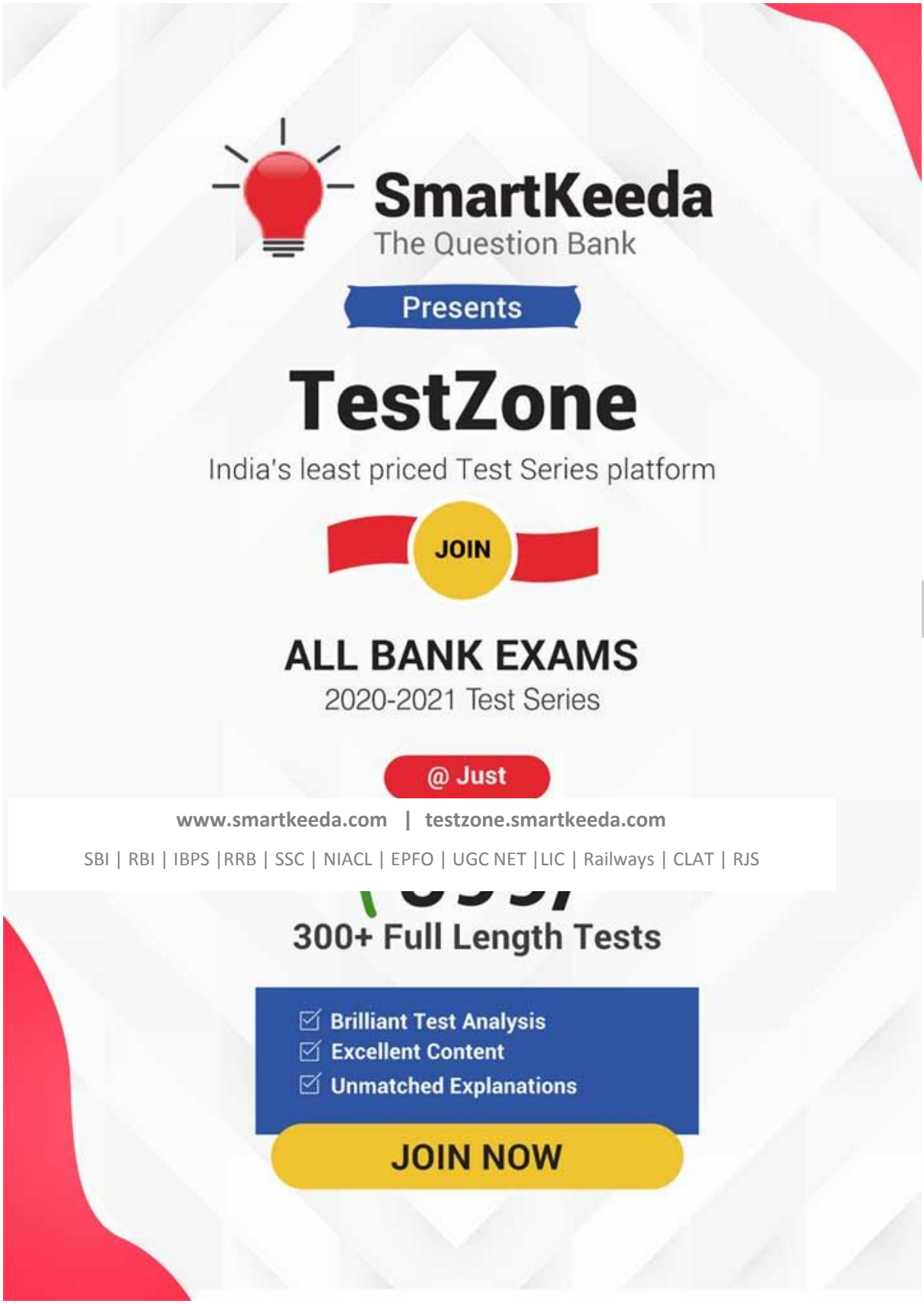
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