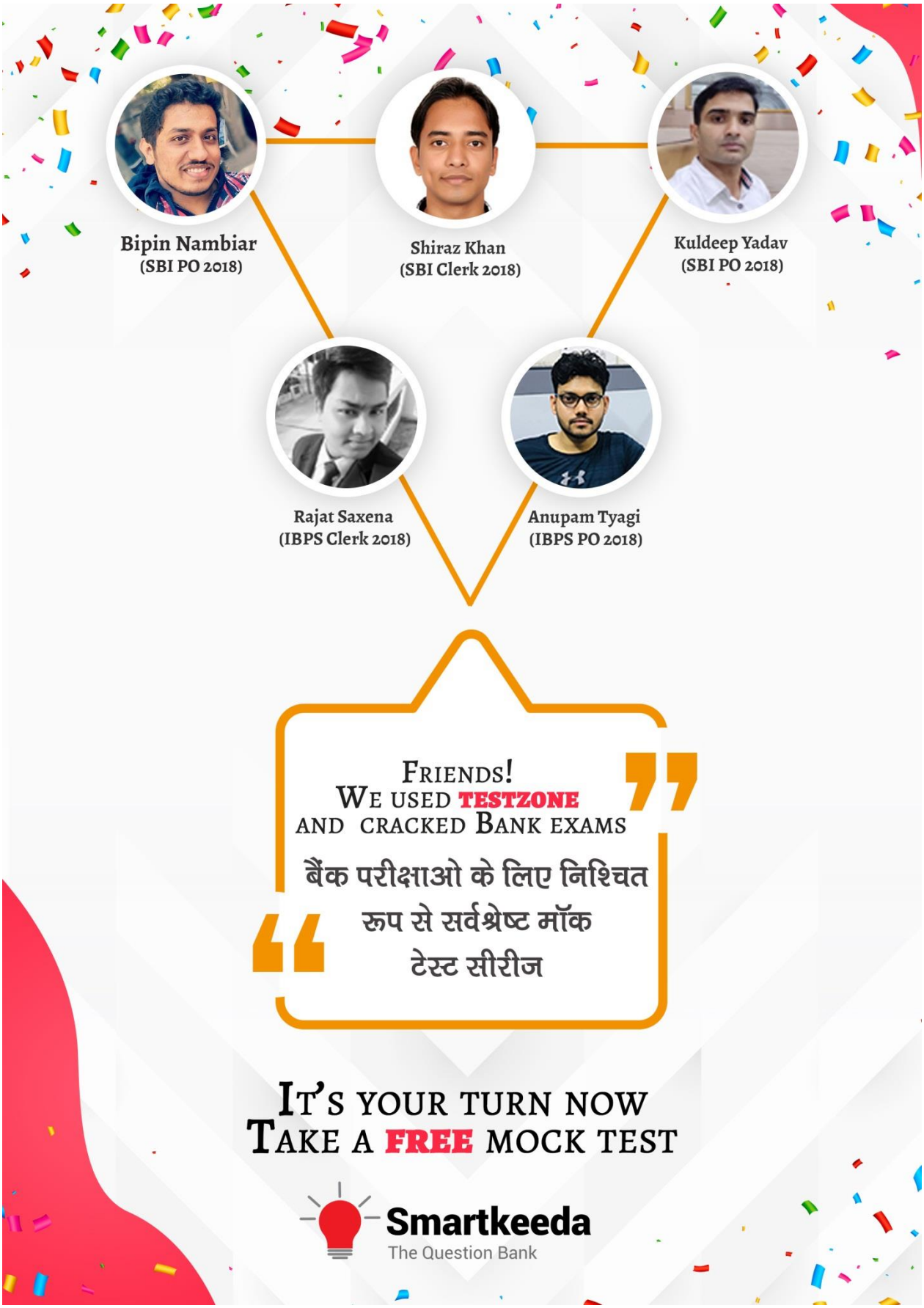
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Date Interpretation Table Chart Questions for SBI Clerk Pre, IBPS Clerk Pre, LIC Assistant, RBI Assistant and IBPS RRB Exams.

DI Table Chart Quiz 98

Directions : Study the following table charts carefully and answer the questions given beside.

The following table shows the proportion of students passed in different streams in graduation from different colleges. It also shows the ratio of males to females among the students.

College	Maths : Science : Economics	Maths	Science	Economics
		M : F	M : F	M : F
A	1 : 4 : 2	34 : 16	57 : 43	31 : 29
B	2 : 4 : 3	47 : 28	11 : 7	16 : 11
C	2 : 4 : 5	31 : 14	23 : 27	11 : 7
D	3 : 5 : 4	29 : 21	27 : 24	53 : 47

1. If the number of females who passed in Maths from college A is 384, the total number of males who passed in Economics from college A, is what percentage of the total number of students who passed from college A?

A. 14.76% B. 12.67% C. 16.50% D. 18.28% E. 20.25%

2. The number of females who passed in Economics from college B is what percentage more/less than the total number of males who passed in Economics from college B?

A. 31.25% more B. 31.25% less C. 45.45% less D. 45.45% more E. 35.25% less

3. If the total number of males who passed in Economics stream from college D is 1272, what is the total number of students who passed in Maths from college D?

A. 2000 B. 1500 C. 1800 D. 2400 E. 1200

4. If the total number of males who passed from college C in Maths is 1240, what is the difference between the total numbers of students who passed in Economics and that in Science from college C?

A. 650 B. 850 C. 700 D. 900 E. 800

5. If the total number of students who passed in Economics from college B is 2700, the total number of students who passed from college B is what percentage of the total number of Science students who passed from college B?

A. 210% B. 245% C. 220% D. 235% E. 225%

Correct Answers:

1	2	3	4	5
A	B	C	D	E

Answers :

1. Females who passed in maths from college A = 384

Ratio of males and females in Maths in college A = 34 : 16

Total students in Maths = $\frac{384 \times (34 + 16)}{16}$ = 1200

In college A, subject ratio = 1 : 4 : 2

1 corresponds to 1200
1 + 4 + 2 = 7

7 corresponds to 8400

In Economics,, total students passed
1 → 1200

2 → 2400

Males passed in Economics = $\frac{2400 \times 31}{60}$ = 1240

Reqd. % = $\frac{1240 \times 100}{8400}$ = 14.76%

Hence, option A is correct.

2. The ratio of Economics students in college B = 16 : 11

Reqd. % = $\frac{(11 - 16) \times 100}{16}$ = $-\frac{500}{16}$ = 31.25% less

Hence, option B is correct.

3.

Given, $\frac{53}{100} = 1272$

$\frac{47}{100} = y$

$y = \frac{1272 \times 47}{53} = 1128$

Total students passed in Economics = 1128 + 1272 = 2400

In college D, the ratio = 3 : 5 : 4

Total students who passed in Maths = $2400 \times \frac{3}{4} = 1800$

Hence, option C is correct.

4. Males students of Maths in college C = 1240

The ratio of Males and Females = 31 : 14

Maths total students = $\frac{1240\ (31 + 14)}{31} = 1800$

The ratio of students in the three streams = 2 : 4 : 5

2 corresponds to 1800

We need to find the difference between the total Economics students and total Science students.

i.e., 5 – 4 = 1

1 corresponds to 900

Hence, option D is correct.

5. In college B, total students in Economics = 2700

The ratio of students in the three streams = 2 : 4 : 3

3 corresponds to 2700

Total 9 ratio corresponds to 8100

Total science students in college B = 3600 (ratio 1 → 900, 4 → 3600)

$$\text{Reqd. \%} = \frac{8100 \times 100}{3600} = 225\%$$

Hence, option E is correct.

Alternate approach:-

The ratio of students in the three streams = 2 : 4 : 3

So let total students = 9x

Total science students from college B = 4x

Required % =(9x / 4x) × 100 = 225%

Hence, option E is correct.