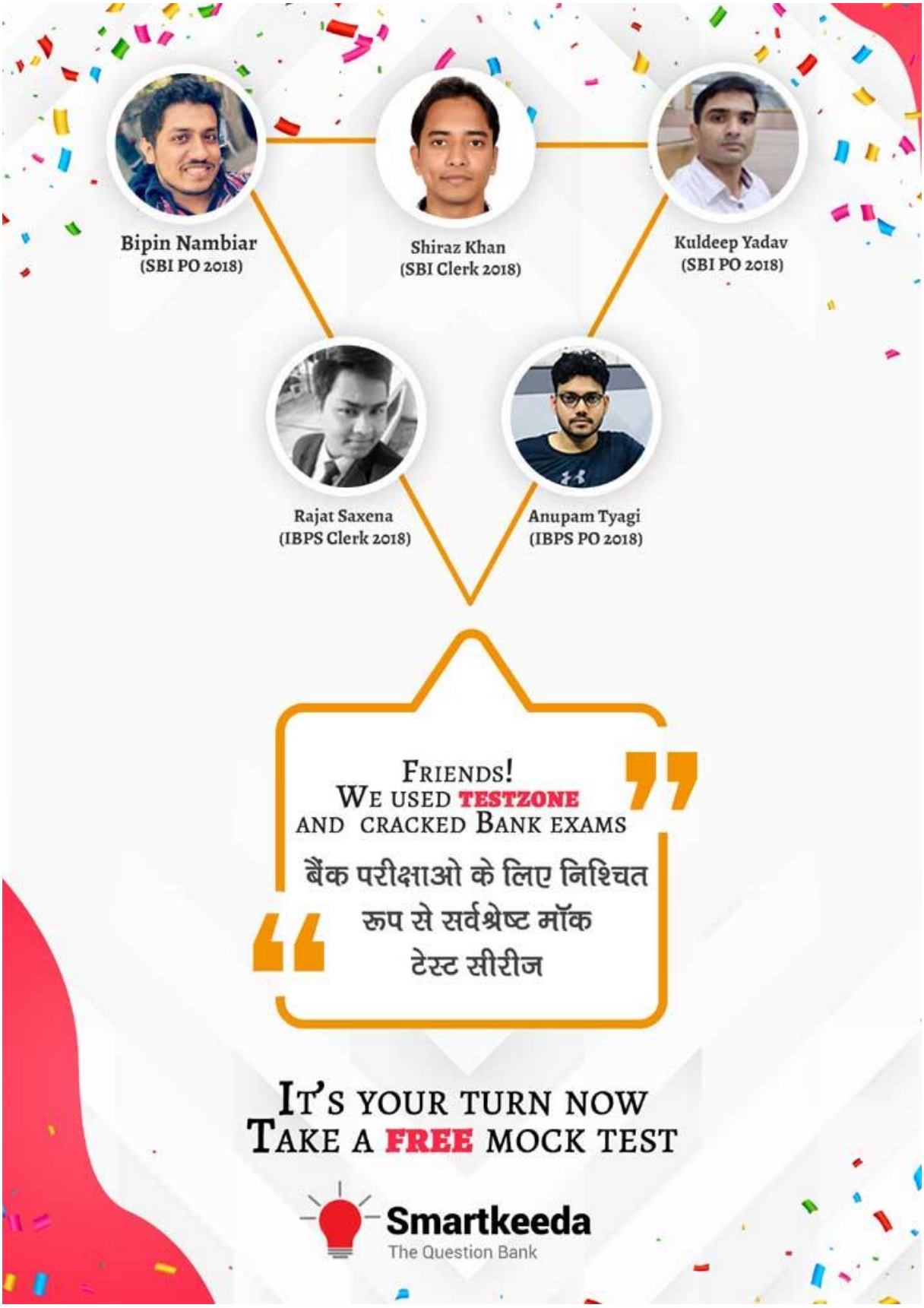
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DI Info Chart Questions for SBI PO Mains, IBPS PO Mains and RBI Grade B Exams.

DI Info Chart No 31

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

The information given below is regarding the number of students appeared in three different exams A, B and C in four different years 2015, 2016, 2017 and 2018.

In 2015:

Students appeared in exam A was twice the students appeared in exam B. Total students appeared in three exams together was 1640. Students appeared in exam B was 40 more than students appeared in exam C.

In 2016:

Students appeared in exam B was 40% more than students appeared in exam A while students appeared in exam C was 20% more than students appeared in exam B. Total students appeared in all three exams together was 2448.

In 2017:

Ratio of students appeared in exam A to exam B was 7:9. Students appeared in exam C was 25% more than students appeared in exam B. Total students appeared in all three exams together was 2180.

In 2018:

Average of students appeared in exams A and B was 560. Students appeared in exam C was 600. Ratio of students appeared in exam A to exam C was 4 : 5.

1. What is the difference between number of students appeared in exams B and C together in 2015 and number of students appeared in exams A and B together in 2017?

A. 450 B. 480 C. 510 D. 420 E. 560

2. What is the ratio of number of students appeared in exams A and B in 2016 to number of students appeared in exams A and C in 2018?

A. 4 : 3 B. 3: 5 C. 1 : 3 D. 8 : 5 E. 7 : 4

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3. **Ratio of number of girls to boys appeared in exam A in 2015 was 5 : 7 and 35% of total students appeared in exam C in 2017 was boys. What is the sum of number of boys appeared in exam A in 2015 and in exam C in 2017?**

A. 835 B. 825 C. 805 D. 845 E. 885

4. **Find the total number of students appeared in all three exams in all four years together.**

A. 7424 B. 7828 C. 7684 D. 7988 E. 7544

5. **In 2017, 10%, 20% and 20% of students appeared in exams A, B and C cleared the respective exams while in 2018 percentage for same was 20%, 10% and 40%. How many students cleared all three exams in these two years?**

A. 750 B. 780 C. 840 D. 860 E. 720

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Correct Answers:

1	2	3	4	5
B	A	C	D	B

Explanations :

1. In 2015:

Let students appeared in exam B = a

Students appeared in exam A = 2a

Students appeared in exam C = a – 40

So a + 2a + a – 40 = 1640

4a = 1680

a = 420

Students appeared in exam B = 420

Students appeared in exam A = 840

Students appeared in exam C = 380

In 2017:

Let students appeared in exam A and exam B be 7c and 9c respectively.

Students appeared in exam C = 125% of 9c = 11.25c

So 7c + 9c + 11.25c = 2180

27.25c = 2180

c = 80

Students appeared in exam A = 560

Students appeared in exam B = 720

Students appeared in exam C = 900

Number of students appeared in exams B and C together in 2015 = 420 + 380 = 800

Number of students appeared in exams A and B together in 2017 = 560 + 720 = 1280

Difference = 1280 – 800 = 480

Hence, option B is correct.

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2. In 2016:

Let students appeared in exam A = b

Students appeared in exam B = 140% of b = 1.4b

Students appeared in exam C = 120% of 1.4b = 1.68b

So b + 1.4b + 1.68b = 2448

4.08b = 2448

b = 600

Students appeared in exam A = 600

Students appeared in exam B = 840

Students appeared in exam C = 1008

In 2018:

Students appeared in exam A = $\frac{600}{5} \times 4 = 480$

Students appeared in exam B = 560 × 2 – 480 = 640

Students appeared in exam C = 600

Total students appeared = 480 + 640 + 600 = 1720

Number of students appeared in exams A and B in 2016 = 600 + 840 = 1440

Number of students appeared in exams A and C in 2018 = 480 + 600 = 1080

Ratio = 1440 : 1080 = 4 : 3

Hence, option A is correct.

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3. In 2015:

Let students appeared in exam B = a

Students appeared in exam A = 2a

Students appeared in exam C = a – 40

So a + 2a + a – 40 = 1640

4a = 1680

a = 420

Students appeared in exam B = 420

Students appeared in exam A = 840

Students appeared in exam C = 380

In 2017:

Let students appeared in exam A and exam B be 7c and 9c respectively.

Students appeared in exam C = 125% of 9c = 11.25c

So 7c + 9c + 11.25c = 2180

27.25c = 2180

c = 80

Students appeared in exam A = 560

Students appeared in exam B = 720

Students appeared in exam C = 900

Sum of boys = $\frac{840}{12} \times 7$ + 35% of 900 = 490 + 315 = 805

Hence, option C is correct.

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4. Total students appeared in 2015 = 1640

Total students appeared in 2016 = 2448

Total students appeared in 2017 = 2180

In 2018:

Students appeared in exam A = $\frac{600}{5} \times 4 = 480$

Students appeared in exam B = 560 × 2 – 480 = 640

Students appeared in exam C = 600

Total students appeared = 480 + 640 + 600 = 1720

Total students appeared = 1640 + 2448 + 2180 + 1720 = 7988

Hence, option D is correct.

5. In 2017:
Let students appeared in exam A and exam B be 7c and 9c respectively.

Students appeared in exam C = 125% of 9c = 11.25c

So 7c + 9c + 11.25c = 2180
27.25c = 2180
c = 80

Students appeared in exam A = 560
Students appeared in exam B = 720
Students appeared in exam C = 900

In 2018:

Students appeared in exam A = $\frac{600}{5} \times 4 = 480$

Students appeared in exam B = 560 × 2 – 480 = 640
Students appeared in exam C = 600

Total students appeared = 480 + 640 + 600 = 1720

Number of students cleared exam = 10% of 560 + 20% of 720 + 20% of 900 + 20% of 480 + 10% of 640 + 40% of 600 = 56 + 144 + 180 + 96 + 64 + 240 = 780

Hence, option B is correct.

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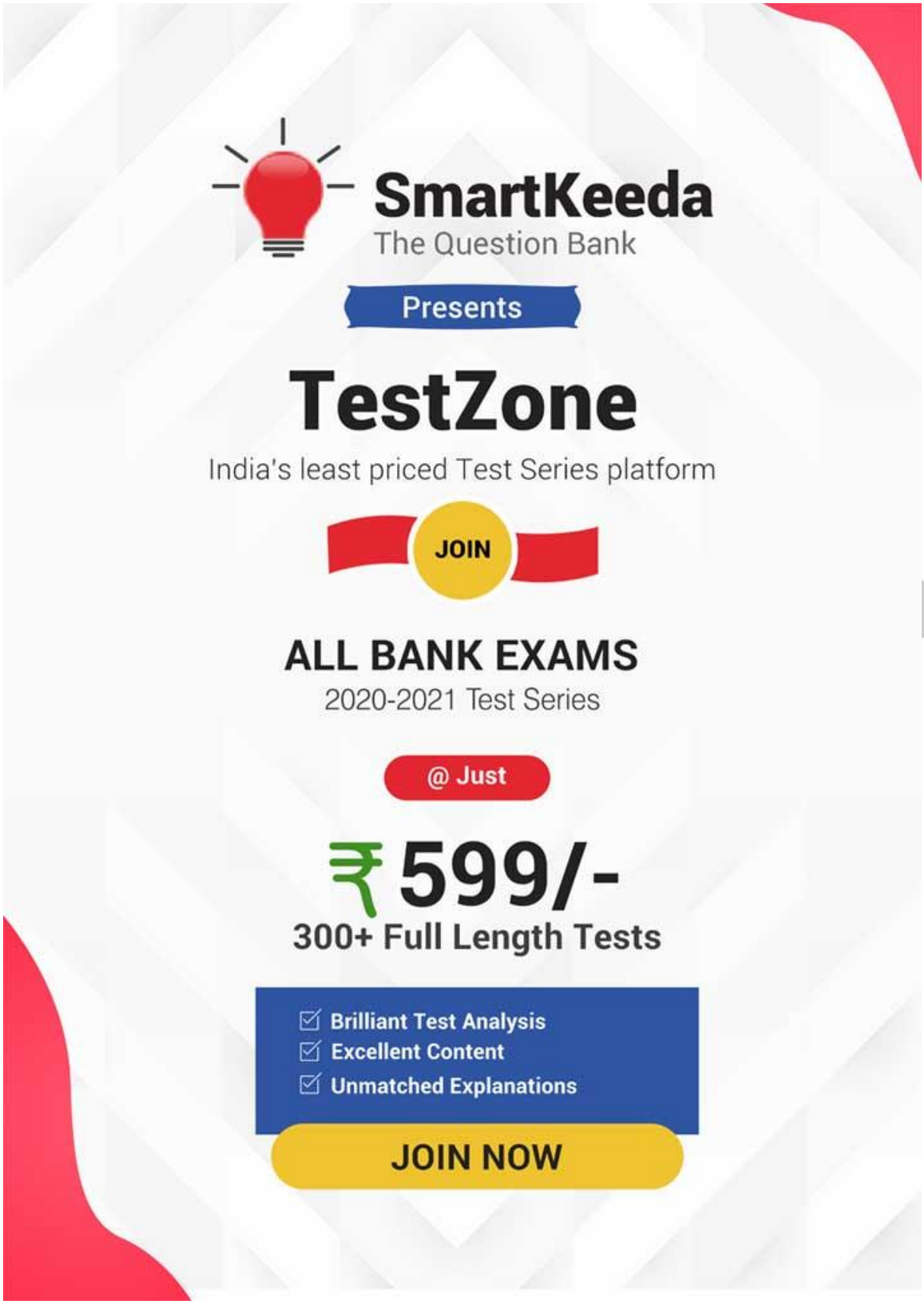
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