Bipin Nambiar
(SBI PO 2018)
Shiraz Khan
(SBI Clerk 2018)
Kuldeep Yadav
(SBI PO 2018)
Rajat Saxena
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DI table Chart Questions for SBI Clerk Mains, IBPS Clerk Mains SBI PO Pre and IBPS PO Pre Exams.

DI Table Chart No.114

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

The following table chart shows the initial investment of three business partners over the years:

Years	A	B	C
2014	4500	2200	4800
2015	4000	2800	4500
2016	5000	2500	4000
2017	8000	3000	3000
2018	6500	4200	3800

1. In 2016, if A invested Rs. 1000 more after 4 months and B invested Rs. 2000 more after 6 months and C did not participate, the profit after one year was Rs. 24750. Find the difference between the share of profit of A and B.

A. Rs. 5820 B. Rs. 5850 C. Rs. 4850 D. Rs. 5580 E. None of these

2. In 2018, A and B tied up together in the business and they did not invest after initial investment. If the share of C was Rs. 1368, what was the total profit in that year?

A. Rs. 5220 B. Rs. 2520 C. Rs. 3860 D. Rs. 4750 E. Rs. 3220

3. Whose initial investment was decreasing continuously for 3 years?

A. A B. B C. C D. A & C E. None of these

4. The average investment of C is approximately what percentage of the average investment of A , for the given years?

A. 92% B. 84% C. 64% D. 72% E. 78%

5. In 2015, A invested Rs. 2000 more after 6 months, B invested Rs.1200 more after 4 months and C took back Rs. 500 after 4 months. If the profit at the end of the year was Rs. 19150, what was the share of B?

A. Rs. 5000 B. Rs. 4200 C. Rs. 5400 D. Rs. 5800 E. Rs. 4800

Correct Answers:

1	2	3	4	5
B	A	C	D	C

Explanations :

1. Initial investment of A in 2016 = Rs. 5000
Initial investment of B in 2016 = Rs. 2500

In 2016, A invested more Rs. 1000 after 4 months and B invested more Rs. 2000 after 6 months and C did not participate.

∴ Equivalent capital of A = (5000 × 4) + (6000 × 8) = 20000 + 48000 = Rs. 68000

Equivalent capital of B = (2500 × 6) + (4500 × 6) = 15000 + 27000 = Rs. 42000

Then, the ratio of their shares:

A : B = 68000 : 42000 = 34 : 21

Profit = Rs. 24750

∴ Share of A = Rs. $24750 \times \frac{34}{55}$ = Rs. 15300

Then, share of B = Rs. (24750 – 15300) = Rs. 9450

∴ The required difference = Rs. (15300 – 9450) = Rs. 5850.

Hence, option B is correct.

2. Initial investment of A in 2018 = Rs. 6500
Initial investment of B in 2018 = Rs. 4200
Initial investment of C in 2018 = Rs. 3800

In 2018, A and B tied up together in the business and they did not invest after initial investment.

∴ Equivalent capital of A and B = (6500 + 4200) × 12 = Rs. 10700 × 12

And, equivalent capital of C = (3800 × 12)

Then, the ratio of their shares:

(A + B) : C = 10700 : 3800 = 107 : 38

Share of C = Rs. 1368

∴ The profit = Rs. $1368 \times \frac{145}{38}$ = Rs. 5220.

Hence, option A is correct.

3. For C,

Initial investment in 2014 = Rs. 4800

Initial investment in 2015 = Rs. 4500
Initial investment in 2016 = Rs. 4000

∴ We can clearly observe that the initial investment of C was decreasing continuously for 3 years.

Hence, option C is correct.

4. Total initial investment of A for the given years: = (4500 + 4000 + 5000 + 8000 + 6500) = Rs. 28000

∴ The average initial investment of A = Rs. $\frac{28000}{5}$ = Rs. 5600

Total initial investment of C for the given years: = (4800 + 4500 + 4000 + 3000 + 3800) = Rs. 20100

∴ The average initial investment of C = Rs. $\frac{20100}{5}$ = Rs. 4020

∴ The reqd. % = $\frac{4020}{5600} \times 100\% = 71.78\% \approx 72\%$

Hence, option D is correct.

5. Initial investment of A in 2015 = Rs. 4000
Initial investment of B in 2015 = Rs. 2800
Initial investment of C in 2015 = Rs. 4500

In 2015, A invested more Rs. 2000 after 6 months, B invested more Rs. 1200 after 4 months and C took back Rs. 500 after 4 months.

∴ Equivalent capital of A = (4000 × 6) + (6000 × 6) = Rs. (24000 + 36000) = Rs. 60000

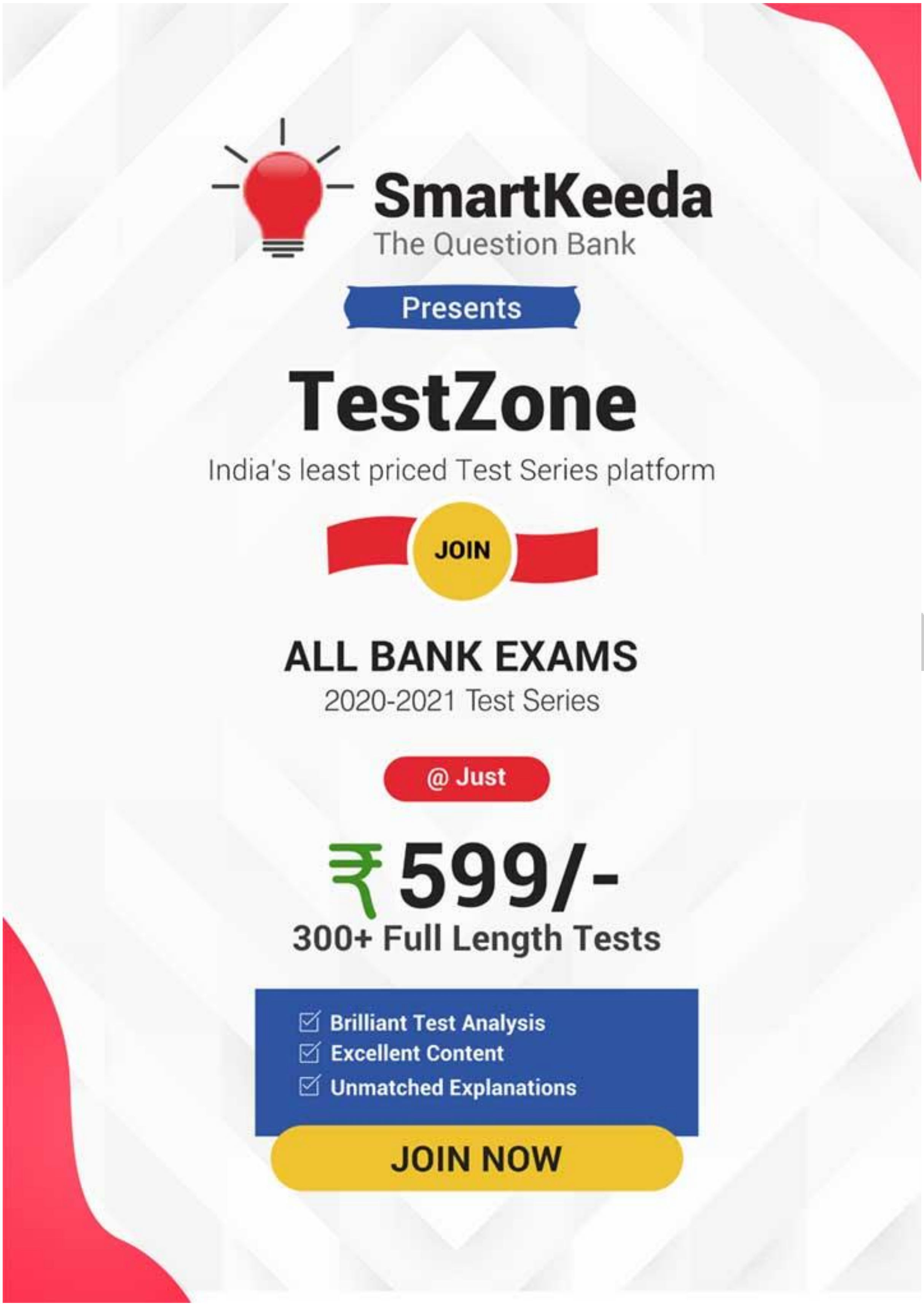
Equivalent capital of B = (2800 × 4) + (4000 × 8) = Rs. (11200 + 32000) = Rs. 43200
Equivalent capital of C = (4500 × 4) + (4000 × 8) = Rs. (18000 + 32000) = Rs. 50000

Then, the ratio of their shares:
A : B : C = 60000 : 43200 : 50000 = 150 : 108 : 125

Profit = Rs. 19150

∴ The share of B = Rs. 19150 × $\frac{108}{383}$ = Rs. 5400

Hence, option C is correct.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