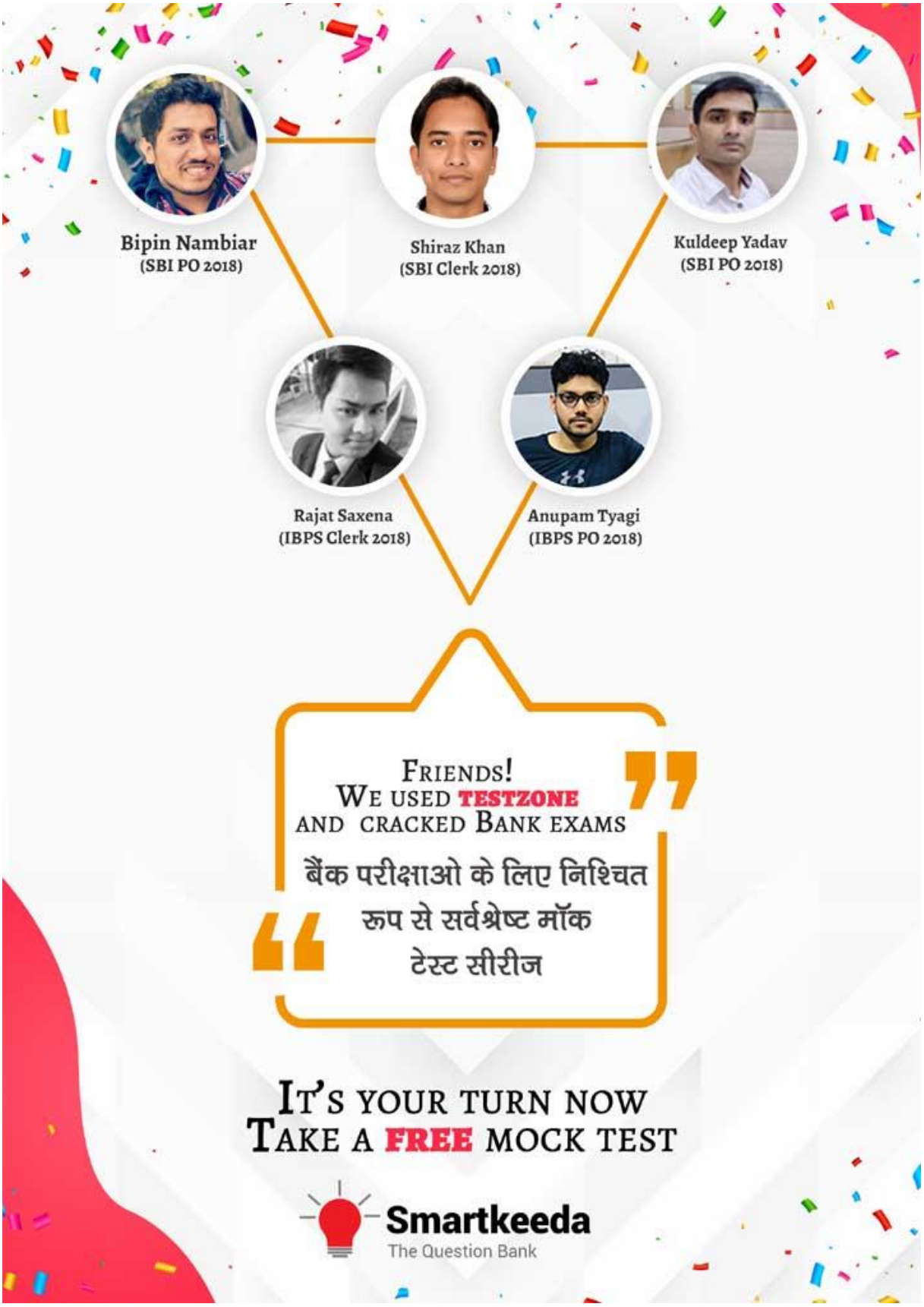
Bipin Nambiar
(SBI PO 2018)
Shiraz Khan
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The Question Bank

DI Info Chart Questions for SBI Clerk Pre, IBPS Clerk Pre, LIC Assistant Pre and RRB Assistant Pre Exams.

DI Info Chart No 41

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

At 10 am Amit left for work 90 km from his house, travelling at 45 km/hr. He reaches there at [A] pm. He can do a piece of work alone in 6 hours and Sumit can do the same work alone in 8 hours. They together finish the work in [B] hours. After finishing the work, while returning home if Amit increases his speed by 5 km/hr, then he reaches his house in [C] hours.

1. At what time Amit reaches his work place?

A. 12:30 pm B. 12 pm C. 1 pm D. 2 pm E. 2:30 pm

2. In how much time Amit and Sumit together can finish the work?

A. $3\frac{1}{2}$ hours B. 4 hours C. $3\frac{3}{7}$ hours D. $4\frac{3}{4}$ hours E. $5\frac{1}{2}$ hours

3. How much time Amit took to reach his house when he increased his speed by 5 km/hr?

A. $1\frac{1}{2}$ hours B. 2 hours C. $1\frac{3}{4}$ hours D. $1\frac{4}{5}$ hours E. $3\frac{1}{2}$ hours

4. If Amit alone works just for 2 hours and then leaves, then the rest of the work is completed by Sumit alone, then in how much time the remaining work gets completed?

A. 3 hours B. 1 hour C. $3\frac{1}{2}$ hours D. $2\frac{2}{3}$ hours E. None of these

5. In how much time, same work will be completed, if Amit and Sumit work alternately for an hour each starting with Amit?

A. 6 hours B. $6\frac{3}{4}$ hours C. $8\frac{1}{2}$ hours D. $7\frac{3}{4}$ hours E. None of these

Correct Answers:

1	2	3	4	5
B	C	D	E	B

Explanations :

1. Speed = 45 km/hr, Distance = 90 km

Time taken = $\frac{90}{45}$ = 2 hours

Amit reaches his work place at 12 pm.

Hence, option B is correct.

2. Amit alone can do the work in 6 hours.

Sumit alone can do the work in 8 hours.

Together they can do the work in = $\frac{6 \times 8}{6 + 8} = 3\frac{3}{7}$ hours

Hence, option C is correct.

3. Speed = 45 + 5 = 50 km/hr

Distance = 90 km

Time taken = $\frac{90}{50} = 1\frac{4}{5}$ hours

Hence, option D is correct.

4. Total work = LCM {6,8} = 24 units

Number of units of work done by Amit in 1 hour = $\frac{24}{6}$ = 4 units

Number of units of work done by Amit in 2 hours = 4 × 2 = 8 units

Work left = (24 – 8) = 16 units

Number of units of work done by Sumit in 1 hour = 24/8 = 3 units/hr

16 units of work is done by Sumit in = $\frac{16}{3}$ hours

Hence, option E is correct.

5. Total work = LCM {6,8} = 24 units

Number of units of work done by Amit in 1 hour

$= \frac{24}{6} = 4$ units

Number of units of work done by Sumit in 1 hour

$= \frac{24}{8} = 3$ units

Work done in 2 hours = 4 + 3 = 7 units

Work done in 6 hours = 7 × 3 = 21 units

Units of work left = (24 – 21) = 3 units

Now its Amit turn, Amit will do it in

$= \frac{3}{4} = \frac{3}{4}$ hour

Total time taken = $6\frac{3}{4}$ hours

Hence, option B is correct.