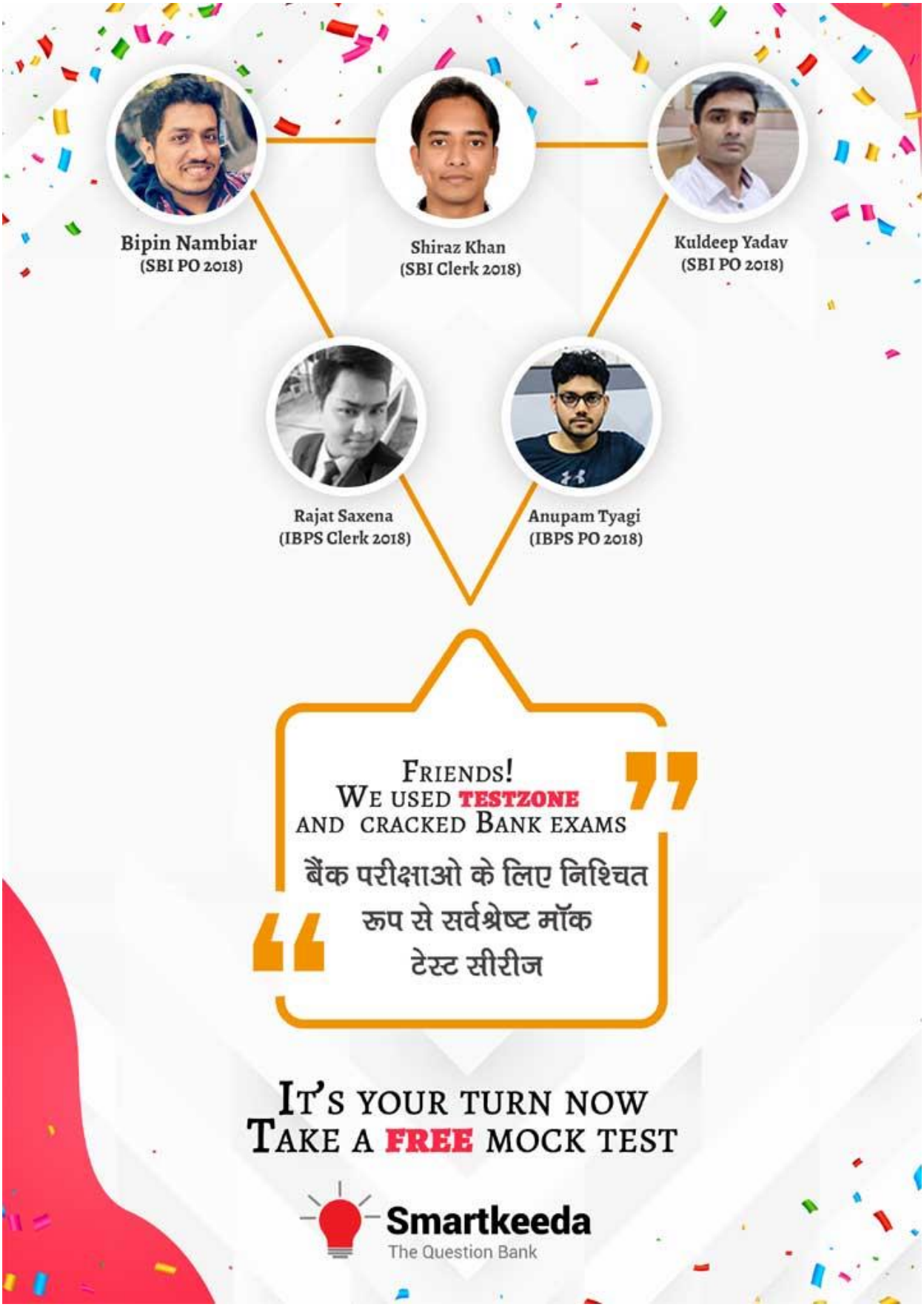
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(SBI PO 2018)
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The Question Bank

Date Interpretation Info Chart Questions Quiz for SBI Clerk Mains, IBPS Clerk Mains, SBI PO Pre, IBPS PO Pre, and LIC AAO Exams.

DI Info Chart Quiz 23

Directions: Study the given information carefully to answer the questions.

Abhishek and Vishal are two friends working in a company. Both live in two different places and their houses are in opposite directions at a distance of 57 km. Their office is situated somewhere between their houses. Vishal leaves for office at 9.45 AM with a speed of 40 km/hr while Abhishek leaves for office at 10.03 AM with a speed of 60 km/h. Both reach office at the same time at [A] AM. After reaching office, both started doing a project which they can do together in 90/11 hours. Vishal alone can do the project in 18 hours but with the help of Vivek, he can complete the project in 72/7 hours. Abhishek and Vivek together can do the same project in [B] hours. In office, Abhishek takes 10/13 hours for lunch break. Abhishek leaves the office on time after completing the project with Vivek. Vivek and Abhishek leave office at the same time and go to a bar where Abhishek and Vivek take [C] and [D] ml of drink respectively. The ratio of alcohol to water in Abhishek's drink is 4: 1 while in Vivek's drink is 11: 2. Both pay a total of Rs. 8280 and the price of each ml of drink is Rs. 18. If Abhishek mixes 60 ml of water in his drink then the quantity of his drink becomes equal to that of Vivek's drink. After leaving office, Vishal buys a lottery ticket which are numbered from 1 to 72. Vishal buys a ticket in which the number is odd and multiple of 3. The probability that Vishal wins the lottery is [E]. Vishal gets Rs. [F] as lottery price and deposits it at 15% compound interest after investing 52% of prize amount in a business which is started by Abhishek. Vishal will get Rs. 7740 as compound interest after 2 years. Salary of Abhishek is Rs. 3000 per day. Abhishek invests his 24 days' salary in a business and Vishal joins him after 3 months. After one year of completion of business, Abhishek gets a profit of Rs. [G] out of Rs. 51545.

1. One day, Rajan who also works with Vishal was late for his office by 16 minutes. At what time did Rajan reach his office on that day?

A. 10 : 56 AM B. 10 : 46 AM C. 10 : 36 AM D. 11 : 16 AM E. 11 : 01 AM

2. What is the office timing?

A. 10 : 30 AM to 9 : 00 PM B. 10 : 30 AM to 7 : 30 PM C. 10 : 30 AM to 7 : 00 PM
D. 10 : 30 AM to 8 : 00 PM E. 10 : 30 AM to 8 : 30 PM

3. 75% of drink taken by Abhishek is how much more/less than 50% of drink taken by Vivek?

A. 20 ml more B. 18 ml more C. 10 ml less D. 24 ml less E. 19 ml more

4. If another person Anupam also buys a lottery ticket in the casino and his ticket number is multiple of 8 then find the difference between winning probability of Vishal and Anupam.

A. $\frac{1}{12}$ B. $\frac{3}{34}$ C. $\frac{1}{24}$ D. $\frac{5}{24}$ E. $\frac{5}{72}$

5. If Vishal deposits his entire lottery prize at 29% simple interest per annum then how much interest will he get after 6 years?

A. Rs. 98000 B. Rs. 87000 C. Rs. 96000 D. Rs. 78000 E. Rs. 92000

Correct Answers:

1	2	3	4	5
B	E	A	C	B

Explanations:

1. Let the distance between Vishal's home and office be 'x'

Then, distance between Abhishek's home and office will be '57 – x'

So, distance travelled by Vishal in 18 minutes

$= \frac{18}{60} \times 40 = 12$ km

Let, the time taken by Abhishek to reach office

$= \frac{57 - x}{60}$

So, $\frac{x - 12}{40} = \frac{57 - x}{60}$

$3x - 36 = 114 - 2x$

$5x = 150$; $x = 30$

So, $\frac{57 - 30}{60} \times 60 = 27$ minutes

[A] = 10 : 03 + 0 : 27 = 10 : 30 AM

Rajan reached office at 10 : 30 + 0 : 16 = 10 : 46 AM

Hence, option B is correct.

2. Part of the project done by Abhishek in a day

$= \frac{11}{90} - \frac{1}{18} = \frac{11-5}{90} = \frac{6}{90} = \frac{1}{15}$

Time taken by Abhishek to do the project alone = 15 hours

Part of project done by Vivek in a day

$= \frac{7}{72} - \frac{1}{18} = \frac{7-4}{72} = \frac{3}{72} = \frac{1}{24}$

Time taken by Vivek to do the project alone = 24 hours

Part of project done by Abhishek and Vivek in a day

$= \frac{1}{15} + \frac{1}{24} = \frac{8+5}{120} = \frac{13}{120}$

Time taken by Abhishek and Vivek to do the project

$= [B] = \frac{120}{13}$ hours

Abhishek takes 10/13 hours for lunch break

Office hours $= [B] + \frac{10}{13} = \frac{120}{13} + \frac{10}{13} = \frac{130}{13} = 10$ hours

Office timing = 10 : 30 AM to 8 : 30 AM

Hence, option E is correct.

3. Let, quantity of alcohol and water in Abhishek's drink be '4x' ml and 'x' ml respectively

And, quantity of alcohol and water in Vivek's drink be '11y' ml and '2y' ml respectively

So, (13y + 5x) x 18 = 8280

13y + 5x = 460

Also, 5x + 60 = 13y

From both the equations, we get

x = 40 and y = 20

[C] = 5x = 200 ml

[D] = 13y = 260 ml

75% of 200 = 150 ml

50% of 260 = 130 ml

Required difference = (150 – 130) = 20 ml

Hence, option A is correct.

4. Numbers between 1 to 72 which is odd number and multiple of 3 = {3, 9, 15, 21, 27, 33, 39, 45, 51, 57, 63, 69}

So, [E] = $\frac{12}{72} = \frac{1}{6}$

Numbers between 1 to 72 which is multiple of 8 = {8, 16, 24, 32, 40, 48, 56, 64, 72}

Winning probability of Anupam = $\frac{9}{72} = \frac{1}{8}$

Reqd. difference = $\frac{1}{6} - \frac{1}{8} = \frac{4-3}{24} = \frac{1}{24}$

Hence, option C is correct.

5. Let, [F] = x

So, $0.48x \times \{(1.15)^2 - 1\} = 7740$

$0.1548x = 7740$, $x = 50000$

[F] = 50000

Reqd. interest = $\frac{50000 \times 29 \times 6}{100}$ = Rs.87000

Hence, option B is correct.