Book For

State Bank Of India

भारतीय स्टेट बैंक
State Bank of India

SBI PO Reasoning Sample

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(1) Pointing a photograph X said to his friend Y, "She is the only daughter of the father of my mother." How X is related to the person of photograph?

[A] Daughter

[B] Son

[C] Nephew

[D] Cannot be decided

Answer : [B]

Explanation:
'The only daughter of the father of X's mother' means mother of X.
Hence X is the son of the lady in the photograph.
Note: Still have doubt like "How X is a male?" - **Let's see the discussions.**

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(2) Pointing towards a man, a woman said, "His mother is the only daughter of my mother." How is the woman related to the man?

[A] Mother

[B] Grandmother

[C] Sister

[D] Daughter

Answer : [A]

Explanation:
Only daughter of my mother → myself.
Hence, the woman is the mother of the man.

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(3)

1. **A3P means A is the mother of P**
2. **A4P means A is the brother of P**
3. **A9P means A is the husband of P**
4. **A5P means A is the daughter of P**

Which of the following means that K is the mother-in-law of M?

[A] M9N3K4J

[B] M9N5K3J

[C] K5J9M3N

[D] K3J9N4M

Answer : [B]

Explanation:
M9N → M is the husband of N
N5K → N is the daughter of K
Hence, → M is the son-in-law of K
K3J → K is the mother of J

Hence, → K is a lady
Hence, → K is the mother-in-law of M.

(4) If A + B means A is the brother of B; A % B means A is the father of B and A x B means A is the sister of B. Which of the following means M is the uncle of P?

[A] M % N x P

[B] N x P % M

[C] M + S % R % P

[D] M + K % T x P

Answer : [D]

Explanation:
M + K → M is the brother of K
K % T → K is the father of T
T x P → T is the sister of P
Therefore, K is the father of P and M is the uncle of P.

(5) If P + Q means P is the brother of Q; P x Q means P is the father of Q and P - Q means P is the sister of Q, which of the following relations shows that I is the niece of K?

[A] K + Y + Z - I

[B] K + Y x I - Z

[C] Z - I x Y + K

[D] K x Y + I - Z

Answer : [B]

Explanation:
K + Y → K is the brother of Y
Y x I → Y is the father of I
Hence, → K is the uncle of I
and I - Z → I is the sister of Z
Hence, → I is the niece of K.

(6) M is the father of N who is the son of V. In order to know the relation of M to P, which of the statement/statements is/are necessary?

1. **P is the brother of V.**

2. **The daughter of N is the granddaughter of V.**

[A] Only (1)

[B] Only (2)

[C] Either (1) or (2)

[D] (1) and (2) both

Answer : [A]

Explanation:
M is the father of N and N is the son of V.
Hence, V is the mother of N.
From (1), P is the brother of V

Therefore, M is the brother-in-law of P because V is the wife of M.
From (2), the daughter of N, is the granddaughter of V. From this we do not get any relation of M to P.

(7) Choose the odd one out.

[A] BdEg

[B] KmNp

[C] PrSu

[D] TwXz

Answer : [D]

Explanation:
In all other groups, the second, third and fourth letters are respectively two, one and two steps ahead of the first, second and third letters respectively.

(8) Choose the odd one out.

[A] DJFB

[B] IOKG

[C] OUQM

[D] RXTO

Answer : [D]

Explanation:
In all other groups, the fourth, first and third letters are alternate letters in order.

(9) Choose the odd one out.

[A] GJOV

[B] BFJQ

[C] ILQX

[D] RUZG

Answer : [B]

Explanation:
In all other groups, the second, third and fourth letters are respectively three, five and seven steps ahead of the first, second and third letters respectively

(10) Choose the odd one out.

[A] DECB

[B] GDFE

[C] HKIJ

[D] JFHG

Answer : [D]

Explanation:
All other groups consist of four consecutive letters, though not in order.

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(11) Choose the odd one out.

[A] BCYZ

[B] EFVW

[C] HIUV

[D] JKQR

[E] ABZA

Answer : [C]

Explanation:
In all other groups, first and second as well as third and fourth letters are consecutive and the third letter occupies the same position from Z backward as the first occupies from A onward.

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(12) The 30 members of a club decided to play a badminton singles tournament. Every time a member loses a game he is out of the tournament. There are no ties. What is the minimum number of matches that must be played to determine the winner ?

[A] 15

[B] 29

[C] 61

[D] None of these

Answer : [B]

Explanation:
Clearly, every member except one (i.e. the winner) must lose one game to decide the winner. Thus, minimum number of matches to be played = 30 - 1 = 29.

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(13) In a class of 60 students, the number of boys and girls participating in the annual sports is in the ratio 3 : 2 respectively. The number of girls not participating in the sports is 5 more than the number of boys not participating in the sports. If the number of boys participating in the sports is 15, then how many girls are there in the class ?

[A] 20

[B] 25

[C] 30

[D] Data inadequate

[E] None of these

Answer : [C]

Explanation:
Let the number of boys and girls participating in sports be 3x and 2x respectively.
Then, 3x = 15 or x = 5.
So, number of girls participating in sports = 2x = 10.
Number of students not participating in sports = 60 - (15 + 10) = 35.
Let number of boys not participating in sports be y.
Then, number of girls not participating in sports = (35 -y).
Therefore (35 - y) = y + 5 $\Leftrightarrow$ 2y $\Leftrightarrow$ 30 $\Leftrightarrow$ y = 15.
So, number of girls not participating in sports = (35 - 15) = 20.
Hence, total number of girls in the class = (10 + 20) = 30.

(14) A certain number of horses and an equal number of men are going somewhere. Half of the owners are on their horses' back while the remaining ones are walking along leading their horses. If the number of legs walking on the ground is 70, how many horses are there ?

[A] 10

[B] 12

[C] 14

[D] 16

Answer : [C]

Explanation:
Let number of horses = number of men = x.
Then, number of legs = 4x + 2 x (x/2) = 5x.
So, 5X = 70 or x = 14.

(15) Ravi's brother is 3 years senior to him. His father was 28 years of age when his sister was born while his mother was 26 years of age when he was born. If his sister was 4 years of age when his brother was born, what were the ages of Ravi's father and mother respectively when his brother was born ?

[A] 32 years, 23 years

[B] 32 years, 29 years

[C] 35 years, 29 years

[D] 35 years, 33 years

Answer : [A]

Explanation:
When Ravi's brother was born, let Ravi's father's age = x years and mother's age = y years.
Then, sister's age = (x - 28) years. So, x - 28 = 4 or x = 32.
Ravi's age = (y - 26) years. Age of Ravi's brother = (y - 26 + 3) years = (y - 23) years.
Now, when Ravi's brother was born, his age = 0 i.e. y - 23 = 0 or y = 23.

(16) The total number of digits used in numbering the pages of a book having 366 pages is

[A] 732

[B] 990

[C] 1098

[D] 1305

Answer : [B]

Explanation:
Total number of digits
= (No. of digits in 1- digit page nos. + No. of digits in 2-digit page nos. + No. of digits in 3- digit page nos.)
= (1 x 9 + 2 x 90 + 3 x 267) = (9 + 180 + 801) = 990.

(17) An enterprising businessman earns an income of Re. 1 on the first day of his business. On every subsequent day, he earns an income which is just double of that made on the previous day. One the 10th day of business, his income is

[A] Rs. 2^9

[B] Rs. 2^{10}

[C] Rs. 10

[D] Rs. 10^2

Answer : [A]

Explanation:
Income on the first day = Re. 1.
Income on the 2nd day = Rs. (1x2) = Rs. 2^1.
Income on the 3rd day = Rs. (2^1 x 2) = Rs. 2^2 and so on. Thus, Income on the rath day = Rs. 2^{n-1}.
Therefore Income on the 10th day = Rs. 2^9.

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(18) On Children's Day, sweets were to be equally distributed among 175 children in a school. Actually on the Children's Day, 35 children were absent and therefore each child got 4 sweets extra. Total how many sweets were available for distribution ?

[A] 2400

[B] 2480

[C] 2680

[D] 2800

Answer : [D]

Explanation:

Let total number of sweets be x. Then,

$$\frac{x}{140} - \frac{x}{175} = 4 \iff 5x - 4x = 4 \times 700 \iff x = 2800.$$

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(19) A, B, C, D and E are sitting on a bench. A is sitting next to B, C is sitting next to D, D is not sitting with E who is on the left end of the bench. C is on the second position from the right. A is to the right of B and E. A and C are sitting together. In which position A is sitting ?

[A] Between B and D

[B] Between B and C

[C] Between E and D

[D] Between C and E

Answer : [B]

Explanation:

E B A C D

Therefore, A is sitting in between B and C.

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(20) There are 8 houses in a line and in each house only one boy lives with the conditions as given below:

    I. **Jack is not the neighbour Siman.**

   II. **Harry is just next to the left of Larry.**

  III. **There is at least one to the left of Larry.**

  IV. **Paul lives in one of the two houses in the middle.**

   V. **Mike lives in between Paul and Larry.**

If at least one lives to the right of Robert and Harry is not between Taud and Larry, then which one of the following statement is not correct ?

[A] Robert is not at the left end.

[B] Robert is in between Simon and Taud.

[C] Taud is in between Paul and Jack.

[D] There are three persons to the right of Paul.

Answer : [C]