

Book For
Delhi Police



Delhi Police (SI) Reasoning Sample Paper in English



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(1) 120, 99, 80, 63, 48, ?

[A] 35

[B] 38

[C] 39

[D] 40

Answer : [A]

Explanation:

The pattern is - 21, - 19, - 17, - 15,.....

So, missing term = 48 - 13 = 35.

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(2) In the series 2, 6, 18, 54, what will be the 8th term ?

[A] 4370

[B] 4374

[C] 7443

[D] 7434

Answer : [B]

Explanation:

Clearly, $2 \times 3 = 6$, $6 \times 3 = 18$, $18 \times 3 = 54$,.....

So, the series is a G.P. in which $a = 2$, $r = 3$.

Therefore 8th term = $ar^{8-1} = ar^7 = 2 \times 3^7 = (2 \times 2187) = 4374$.

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(3) Z, ?, T, ?, N, ?, H, ?, B

[A] W, Q, K, E

[B] W, R, K, E

[C] X, Q, K, E

[D] X, R, K, E

Answer : [A]

Explanation:



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(4) DHL, PTX, BFJ, ?

[A] CGK

[B] KOS

[C] NRV

[D] RVZ

Answer : [C]

Explanation:



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(5) m _ nm _ n _ an _ a _ ma _

[A] aamnan

[B] ammanm

[C] aammnn

[D] amammn

Answer : [C]

Explanation:

The series is man/man/man/man/man. Thus, the pattern 'man' is repeated.

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(6) ab _ d _ aaba _ na _ badna _ b

[A] andaa

[B] babda

[C] badna

[D] dbanb

Answer : [A]

Explanation:

The series is abadna/abadna/abadna/ab. Thus, the pattern 'abadna' is repeated.

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(7) If A + B means A is the mother of B; A - B means A is the brother 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 shows that P is the maternal uncle of Q?

[A] Q - N + M x P

[B] P + S x N - Q

[C] P - M + N x Q

[D] Q - S % P

Answer : [C]

Explanation:

P - M → P is the brother of M

M + N → M is the mother of N

N x Q → N is the sister of Q

Therefore, P is the maternal uncle of Q.

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(8) Pointing to a photograph of a boy Suresh said, "He is the son of the only son of my mother." How is Suresh related to that boy?

[A] Brother

[B] Uncle

[C] Cousin

[D] Father

Answer : [D]

Explanation: The boy in the photograph is the only son of the son of Suresh's mother i.e., the son of Suresh. Hence, Suresh is the father of boy.

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(9) Pointing to a photograph Lata says, "He is the son of the only son of my grandfather." How is the man in the photograph related to Lata?

[A] Brother

[B] Uncle

[C] Cousin

[D] Data is inadequate

Answer : [A]

Explanation: The man in the photograph is the son of the only son of Lata's grandfather i.e., the man is the son of Lata's father. Hence, the man is the brother of Lata.

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(10) Pointing to a boy in the photograph Reena said, "He is the only son of the only child of my grandfather." How Reena is related to that boy?

- [A] Mother
- [B] Sister
- [C] Aunt
- [D] Cannot be determined

Answer : [B]

Explanation:

The boy in the photograph is the only son of Reena's grandfather's only son; i.e., the boy is the only son of Reena's father. Hence, the boy is the brother of Reena or Reena is the sister of the boy.

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(11) Anupam said to a lady sitting in a car, "The only daughter of the brother of my wife is the sister-in-law of the brother of your sister." How the husband of the lady is related to Anupam?

- [A] Maternal uncle
- [B] Uncle
- [C] Father
- [D] Son-in-law

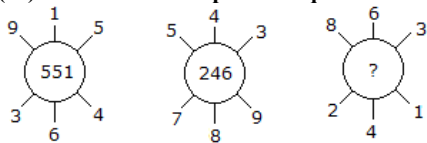
Answer : [D]

Explanation:

Anupam's son-in-law is the brother of the lady who was sitting in the car. Hence, the husband is also the son-in-law of Anupam.

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(12) Which one will replace the question mark ?



- [A] 262
- [B] 622
- [C] 631
- [D] 824

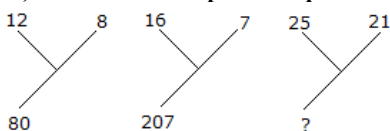
Answer : [B]

Explanation:

$915 - 364 = 551$
and $789 - 543 = 246$
Similarly, $863 - 241 = 622$.

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(13) Which one will replace the question mark ?



- [A] 184
- [B] 210

[C] 241

[D] 425

Answer : [A]

Explanation:

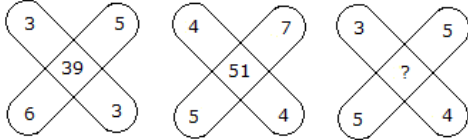
$$(12)^2 - (8)^2 = 80$$

$$\text{and } (16)^2 - (7)^2 = 207$$

$$\text{Therefore } (25)^2 - (21)^2 = 184.$$

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(14) Which one will replace the question mark ?



[A] 47

[B] 45

[C] 37

[D] 35

Answer : [C]

Explanation:

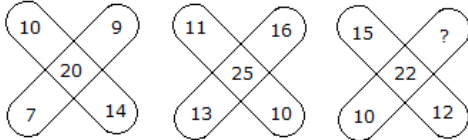
$$(3 \times 3) + (5 \times 6) = 39$$

$$\text{and } (4 \times 4) + (5 \times 7) = 51$$

$$\text{Therefore, } (3 \times 4) + (5 \times 5) = 37.$$

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(15) Which one will replace the question mark ?



[A] 6

[B] 7

[C] 8

[D] 9

Answer : [B]

Explanation:

$$(10 + 9 + 14 + 7)/2 = 20$$

$$\text{and } (11 + 16 + 10 + 13)/2 = 25$$

$$\text{Therefore, } (15 + ? + 12 + 10)/2 = 22$$

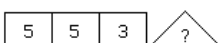
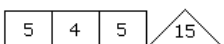
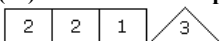
$$\text{Hence } 37 + ? = 44$$

$$? = 44 - 37$$

$$? = 7.$$

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(16) Which one will replace the question mark ?



[A] 11

[B] 19

[C] 15

[D] 22

Answer : [D]

Explanation:

$$(2 \times 2 - 1) = 3$$

$$\text{and } (5 \times 4 - 5) = 15$$

$$(5 \times 5 - 3) = 22.$$

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(17) Choose the odd one out.

[A] DFBG

[B] IKGM

[C] SUQV

[D] MOKP

[E] VXTY

Answer : [B]

Explanation:

In all other groups, the second and fourth letters are consecutive and there is a gap of one letter between third and first.

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(18) Choose the odd one out.

[A] AJKL

[B] IXYZ

[C] EPQR

[D] OFGH

[E] VCBA

Answer : [E]

Explanation:

In all other groups, the first letter is a vowel followed by three consecutive letters.

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(19) Choose the odd one out.

[A] CGON

[B] FJQP

[C] HLTS

[D] LPXW

Answer : [B]

Explanation:

In all other groups, the second, fourth and third letters are respectively four, seven and one steps ahead of the first, second and fourth letters respectively.

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(20) Choose the odd one out.

[A] CegI

[B] FhjL

[C] PrtV

[D] KnpR

[E] UwyA

Answer : [D]

Explanation:

In all other groups, the letters are alternate and the middle two are small letters.

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