

Book For
National Insurance Company Limited



NICL AO Reasoning Sample Paper Pre Exam



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(1) 45, 54, 47, ?, 49, 56, 51, 57, 53

[A] 48

[B] 50

[C] 55

[D] None of these

Answer : [C]

Explanation:

The given sequence is a combination of two series:

I. 45, 47, 49, 51, 53 and II. 54, ?, 56, 57

Clearly, II consists of consecutive natural numbers, starting from 54.

So, missing term = 55.

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(2) 6, 15, 35, 77, 165, 221

[A] 35

[B] 77

[C] 165

[D] 15

Answer : [C]

Explanation:

The terms of the series are products of two consecutive prime numbers i.e. (2×3) ,

(3×5) , (5×7) , (7×11) ,.....

So, 165 is wrong and must be replaced by (11×13) i.e. 143.

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(3) 8, 14, 26, 48, 98, 194, 386

[A] 14

[B] 48

[C] 98

[D] 194

Answer : [B]

Explanation:

The correct pattern is $x^2 - 2$.

So, 48 is wrong and must be replaced by $(26 \times 2 - 2)$ i.e. 50.

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(4) A, G, L, P, S, ?

[A] U

[B] W

[C] X

[D] Y

Answer : [A]

Explanation:



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(5) _ o p _ m o _ n _ _ p n m o p _ .

[A] mnpmon

[B] mpnmop

[C] mnompn

[D] mnpomn

Answer : [A]

Explanation:

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

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(6) Introducing a boy, a girl said, "He is the son of the daughter of the father of my uncle." How is the boy related to the girl?

[A] Brother

[B] Nephew

[C] Uncle

[D] Son-in-law

Answer : [A]

Explanation: The father of the boy's uncle → the grandfather of the boy and daughter of the grandfather → sister of father.

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(7) A and B are children of D. Who is the father of A? To answer this question which of the statements (1) and (2) is necessary?

1. C is the brother of A and the son of E.

2. F is the mother B.

[A] Only (1)

[B] Only (2)

[C] Either (1) or (2)

[D] (1) and (2) both

Answer : [B]

Explanation:

A and B are children of D.

From (1), C is the brother B and son of E.

Since, the sex of D and E are not known. Hence (1) is not sufficient to answer the question.

From (2), F is the mother of B. Hence, F is also the mother of A. Hence D is the father of A.

Thus, (2) is sufficient to answer the question.

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(8) If A \$ B means A is the brother of B; A @ B means A is the wife of B; A # B means A is the daughter of B and A * B means A is the father of B, which of the following indicates that U is the father-in-law of P?

[A] P @ Q \$ T # U * W

[B] P @ W \$ Q * T # U

[C] P @ Q \$ W * T # U

[D] P @ Q \$ T # W * U

Answer : [A]

Explanation:

P @ Q → P is the wife of Q ...(1)

Q \$ T → Q is the brother of T ...(2)

T # U → T is the daughter of U

Hence, → Q is the son of U ...(3)

U * W → U is the father of W.

From (1) and (3), U is the father-in-law of P.

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(9) If A \$ B means A is the brother of B; B * C means B is the son of C; C @ D means C is the wife of D and A # D means A is the son of D, how C is related to A?

[A] Maternal grandmother

[B] Maternal aunt

[C] Aunt

[D] Mother

Answer : [D]

Explanation:

A \$ B → A is the brother of B

B * C → B is the son of C

Hence, → A is the son of C

C @ D → C is the wife of D

Hence, → C is the mother of A.

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(10) A is the son of C; C and Q are sisters; Z is the mother of Q and P is the son of Z. Which of the following statements is true?

[A] P and A are cousins

[B] P is the maternal uncle of A

[C] Q is the maternal grandfather of A

[D] C and P are sisters

Answer : [B]

Explanation:

C and Q are sisters and A is the son of C. Hence, C is the mother of A or Z is the mother Q.

Hence, Z is the maternal grandmother of A. P is the son of Z. Hence, P is the maternal uncle of A.

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(11) Statements: Some mangoes are yellow. Some tixo are mangoes.

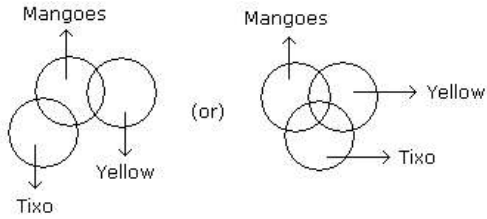
Conclusions:

I. Some mangoes are green.

II. Tixo is a yellow.

- [A] Only (1) conclusion follows
- [B] Only (2) conclusion follows
- [C] Either (1) or (2) follows
- [D] Neither (1) nor (2) follows
- [E] Both (1) and (2) follow

Answer : [D]



Explanation: None of the two follows.

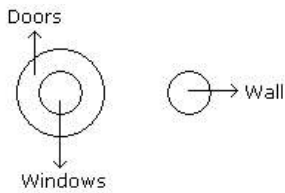
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(12) Statements: All the windows are doors. No door is a wall.
Conclusions:

- I. Some windows are walls.**
- II. No wall is a door.**

- [A] Only (1) conclusion follows
- [B] Only (2) conclusion follows
- [C] Either (1) or (2) follows
- [D] Neither (1) nor (2) follows
- [E] Both (1) and (2) follow

Answer : [B]



Explanation: Only (2) follows.

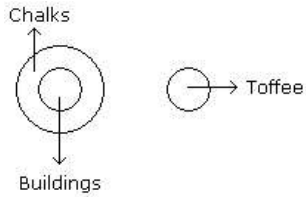
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(13) Statements: All buildings are chalks. No chalk is toffee.
Conclusions:

- I. No building is toffee**
- II. All chalks are buildings.**

- [A] Only (1) conclusion follows
- [B] Only (2) conclusion follows
- [C] Either (1) or (2) follows
- [D] Neither (1) nor (2) follows
- [E] Both (1) and (2) follow

Answer : [A]



Explanation: Only (1) follows.

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(14) Statements: All cars are cats. All fans are cats.

Conclusions:

I. All cars are fans.

II. Some fans are cars.

[A] Only (1) conclusion follows

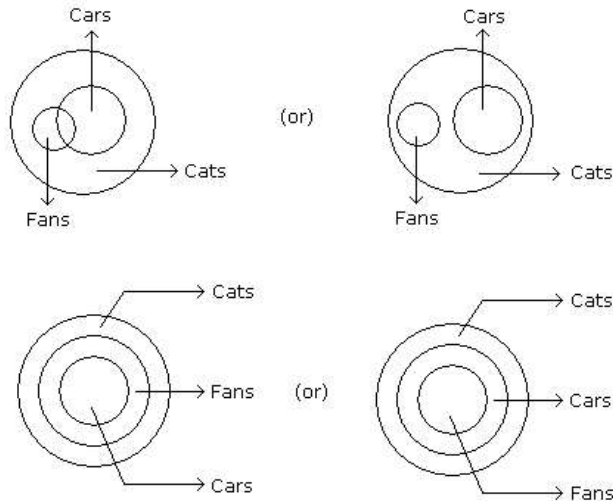
[B] Only (2) conclusion follows

[C] Either (1) or (2) follows

[D] Neither (1) nor (2) follows

[E] Both (1) and (2) follow

Answer : [D]



Explanation: None of these two follows.

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(15) AEFJ : KOPT :: ? : QUVZ

[A] GKLP

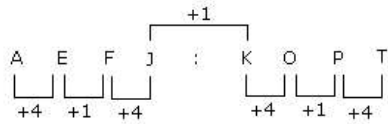
[B] GLKP

[C] HKLP

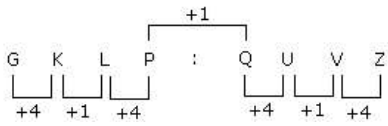
[D] HKQL

Answer : [A]

As,



Similarly,



Explanation:

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(16) 8 : 28 :: 27 : ?

[A] 28

[B] 8

[C] 64

[D] 65

Answer : [D]

Explanation:

First number = 8 and the sum of the digits of the second number is $2 + 8 = 10$.

Thus the difference of the first number and the sum of the digits of second number is $10 - 8 = 2$.

Similarly, the sum of the digits of third number is $2 + 7 = 9$.

Hence the sum of digits of fourth number should be 2 more than 9 i.e. 11

Hence, fourth number is 65.

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(17) Rectangle : Pentagon

[A] Side : Angle

[B] Diagonal : Perimeter

[C] Triangle : Rectangle

[D] Circle : Square

Answer : [C]

Explanation: Second one had one more side than the first.

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(18) Carpenter, Plumber, Electrician

[A] Doctor

[B] Blacksmith

[C] Professor

[D] Lawyer

Answer : [B]

Explanation: Carpenter, Plumber, Electrician and Blacksmith are in same working category.

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(19) 'Wax' is related to 'Grease' in the same way as 'Milk' is related to:

- [A] Drink
- [B] Ghee
- [C] Protein
- [D] Curd

Answer : [D]

Explanation: As 'Grease' is prepared from 'Wax' in the same way 'Curd' is prepared from 'Milk'.

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(20) 'Kathak' is related to 'U.P' in the same way as 'Odyssey' is related to:

- [A] Assam
- [B] Kerala
- [C] Orissa
- [D] Gujarat

Answer : [C]

Explanation: As 'Kathak' is common in 'U.P' in the same way 'Odyssey' is common in 'orissa'.

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