

Book For
Maharashtra Public Service Commission



MPSC Sub Inspector Reasoning Sample Paper For Main Exam



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(1) 8, 28, 116, 584, ?

[A] 1752

[B] 3502

[C] 3504

[D] 3508

Answer : [D]

Explanation:

The pattern is $x^3 + 4$, $x^4 + 4$, $x^5 + 4$,.....

So, missing term = $584 \times 6 + 4 = 3508$.

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(2) 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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(3) 121, 143, 165, 186, 209

[A] 143

[B] 165

[C] 186

[D] 209

Answer : [C]

Explanation:

Each term in the series is obtained by adding 22 to the preceding term.

So, 186 is wrong and must be replaced by $(165 + 22)$ i.e. 187.

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(4) 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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(5) _bcc _ ac _ aabb _ ab _ cc

[A] aabca

[B] abaca

[C] bacab

[D] bcaca

Answer : [C]

Explanation:

The series is bbcca/ccaabb/aabbcc. Thus, the letter pairs move in a cyclic order.

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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) 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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(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 B is the father of A; A # B means B is the mother of A; A * B means B is the sister of A and A @ B means B is the husband of A, which of the following indicates that N is the grandmother of P?

[A] P * Q # M \$ N

[B] P @ Q \$ M # N

[C] P # Q \$ N * M

[D] None of these

Answer : [D]

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(10) Question: How many children are there between P and Q in a row of children ?

Statements:

I. P is fifteenth from the left in the row.

II. Q is exactly in the middle and there are ten children towards his right.

[A] I alone is sufficient while II alone is not sufficient

[B] II alone is sufficient while I alone is not sufficient

[C] Either I or II is sufficient

[D] Neither I nor II is sufficient

[E] Both I and II are sufficient

Answer : [E]

Explanation:

From II, Q being in the middle, there are 10 children to his right as well as to his left. So, Q is 11th from the left. From I, P is 15th from the left. Thus, from both I and II, we conclude that there are 3 children between P and Q.

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(11) Question: B is the brother of A. How is A related to B ?

Statements:

I. A is the sister of C.

II. E is the husband of A.

[A] I alone is sufficient while II alone is not sufficient

[B] II alone is sufficient while I alone is not sufficient

[C] Either I or II is sufficient

[D] Neither I nor II is sufficient

[E] Both I and II are sufficient

Answer : [C]

Explanation:

B is A's brother means A is either brother or sister of B. Now, each one of I and II individually indicates that A is a female, which means that A is B's sister.

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(12) Question: How many children are there in the row of children facing North ?

Statements:

I. Vishakha who is fifth from the left end is eighth to the left of Ashish who is twelfth from the right end.

II. Rohit is fifth to the left of Nisha who is seventh from the right end and eighteenth from the left end.

[A] I alone is sufficient while II alone is not sufficient

[B] II alone is sufficient while I alone is not sufficient

[C] Either I or II is sufficient

[D] Neither I nor II is sufficient

[E] Both I and II are sufficient

Answer : [C]

Explanation:

Since 8th to the left of 12th from the right is 20th from the right, so from I, we know that Vishakha is 5th from left and 20th from right i.e. there are 4 children to the left and 19 to the right of Vishakha. So, there are $(4 + 1 + 19)$ i.e. 24 children in the row.

From II, Nisha is 7th from right and 18th from left end of the row.

So, there are $(6 + 1 + 17) = 24$ children in the row.

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(13) Question: How many doctors are practising in this town ?**Statements:**

I. There is one doctor per seven hundred residents.

II. There are 16 wards with each ward having as many doctors as the number of wards.

[A] I alone is sufficient while II alone is not sufficient

[B] II alone is sufficient while I alone is not sufficient

[C] Either I or II is sufficient

[D] Neither I nor II is sufficient

[E] Both I and II are sufficient

Answer : [B]

Explanation:

From I, total number of doctors in town = $(1/700 \times N)$, where N = total number of residents in town. But, the value of N is not known.

From II, total number of doctors in town

= (Number of wards in town) \times (Number of doctors in each ward)

= $16 \times 16 = 256$.

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(14) Question: What is the code for 'or' in the code language?**Statements:**

I. 'nik sa te' means 'right or wrong', 'ro da nik' means 'he is right' and 'fe te ro' means 'that is wrong'.

II. 'pa nik la' means 'that right man', 'sa ne pa' means 'this or that' and 'ne ka re' means 'tell this there'.

[A] I alone is sufficient while II alone is not sufficient

[B] II alone is sufficient while I alone is not sufficient

[C] Either I or II is sufficient

[D] Neither I nor II is sufficient

[E] Both I and II are sufficient

Answer : [C]

Explanation:

I. In 'right or wrong' and 'he is right', the common word is 'right' and the common code word is 'nik'. So 'nik' means 'right'. In 'right or wrong' and 'that is wrong', the common word is 'wrong' and the common code word is 'te'. So, 'te' means 'wrong'.

Thus, in 'right or wrong', 'sa' is the code for 'or'. II. In 'that right man' and 'this or that', the common word is 'that' and the common code word is 'pa'. So, 'pa' means 'that'. In 'this or that' and 'tell this there', the common word is 'this' and the common code word is 'ne'. So, 'ne' means 'this'. Thus, in 'this or that', 'sa' is the code for 'or'.

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(15) Question: What is Gagan's age ?**Statements:**

I. Gagan, Vimal and Kunal are all of the same age.

II. Total age of Vimal, Kunal and Anil is 32 years and Anil is as old as Vimal and Kunal together.

[A] I alone is sufficient while II alone is not sufficient

[B] II alone is sufficient while I alone is not sufficient

[C] Either I or II is sufficient

[D] Neither I nor II is sufficient

[E] Both I and II are sufficient

Answer : [E]

Explanation:

As given in I and II, we have: $G = V = K$, $V + K + A = 32$ and $A = V + K$.
Putting $V + K = A$ in $V + K + A = 32$, we have: $2A = 32$ or $A = 16$.
Thus, $V + K = 16$ and $V = K$. So, $V = K = 8$. Thus, $G = 8$.

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(16) Question: Among Monika, Anita, Sonal, Ratna and Tanvy, who came last for the programme ?

Statements:

I. Monika came after Anita but not after Tanvy.

II. Ratna came after Tanvy but not after Sonal.

[A] I alone is sufficient while II alone is not sufficient

[B] II alone is sufficient while I alone is not sufficient

[C] Either I or II is sufficient

[D] Neither I nor II is sufficient

[E] Both I and II are sufficient

Answer : [E]

Explanation:

From I, we have the order : A, M, T.

From II, we have the order: T, R, S.

Combining the above two, we get the order: A, M, T, R, S.

Thus, Sonal came last for the programme.

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(17) Question: What is the code for 'is' in the code language ?

Statements:

I. In the code language, 'shi tu ke' means 'pen is blue'.

II. In the same code language, 'ke si re' means 'this is wonderful'.

[A] I alone is sufficient while II alone is not sufficient

[B] II alone is sufficient while I alone is not sufficient

[C] Either I or II is sufficient

[D] Neither I nor II is sufficient

[E] Both I and II are sufficient

Answer : [E]

Explanation:

In I and II, the common word is 'is' and the common code word is 'ke'. So, 'ke' is the code for 'is'.

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(18) Question: What does 'nip' stand for in a code language ?

Statements:

I. In the code language, 'that is very beautiful' is written as 'se nip sre num'

II. In the same code language, 'my house is beautiful' is written as 'nip sto sre tip'.

[A] I alone is sufficient while II alone is not sufficient

[B] II alone is sufficient while I alone is not sufficient

[C] Either I or II is sufficient

[D] Neither I nor II is sufficient

[E] Both I and II are sufficient

Answer : [D]

Explanation:

In I and II, the common codes are 'nip' and 'sre' and the common words are 'is' and 'beautiful'. So, 'nip' and 'sre' are the codes for 'is' and 'beautiful'. But, the exact word for 'nip' cannot be found out.

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(19) Question: How many girls are taller than Shravan in his class ?

Statements:

I. When students of Shravan's class are ranked in descending order of their heights, Shravan's rank is 17th from the top among all the students and 12th among boys.

II. Shravan's rank from the bottom on the basis of height among boys is 18th and among all students, 29th.

[A] I alone is sufficient while II alone is not sufficient

[B] II alone is sufficient while I alone is not sufficient

[C] Either I or II is sufficient

[D] Neither I nor II is sufficient

[E] Both I and II are sufficient

Answer : [A]

Explanation:

From I, we conclude that there are 16 students and 11 boys taller than Shravan.

This implies that there are 5 girls taller than Shravan.

In II, Shravan's rank from the bottom is mentioned and to ascertain the number of girls taller than him, we need to know his rank from the top for which the number of students in the class is required, which is not given.

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(20) 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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