

Book For
Maharashtra Public Service Commission



MPSC Sub Inspector Reasoning Sample Paper For Pre Exam



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(1) 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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(2) Question: On which day in April is Gautam's birthday?

Statements:

- I. Gautam was born exactly 28 years after his mother was born.**
- II. His mother will be 55 years 4 months and 5 days on August 18 this year.**

- [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:

Clearly, the birthday of Gautam's mother can be found out from II and then Gautam's birthday can be determined using the fact given in I.

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(3) Question: What is the monthly salary of Prashant ?

Statements:

- I. Prashant gets 15% more than Sumit while Sumit gets 10% less than Lokesh.**
- II. Lokesh's monthly salary is Rs 2500.**

- [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 both I and II, we find that:
Prashant's salary = 115% of (90% of Rs 2500) = Rs 2587.50.

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(4) 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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(5) Question: How is 'DATE' written in the code language ?

Statements:

- I. DEAR is written as \$#@? in that code.**
II. TREAT is written as %?#@% in that code.
III. TEAR is written as %#@? in that code,

- [A] Only I and II
[B] Only II and III
[C] All I, II and III
[D] Only I and either II or III
[E] None of these

Answer : [D]

Explanation:

Observing I, II and III, we find that similar letters have similar code symbols at the corresponding places in the code. So, this is direct-coding. Thus, to find the code for DATE, we need the code for D which can be obtained from I only (i.e. \$.) and the codes for A, T and E which can be obtained either from II or III (@, # and % respectively).

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(6) Question: Among P, Q, R, S and T, Q is the second tallest and S is immediate taller than the shortest. Who among them is in the middle when they stand in the order of their heights ?

Statements:

- I. T is not the shortest.**
II. R is taller than S but shorter than Q.
III. P ranks third in height above S when all are arranged in the order of height.

- [A] Only I and II
[B] Either II only or I and III only
[C] Only II
[D] Only II and III
[E] None of these

Answer : [B]

Explanation:

From the given statement, the descending order of heights is : __, Q, __, S, __.
From II, we have the order: __, Q, R, S, __. Thus, R is in the middle.
From III, we have the order : P, Q, __, S, __. But, according to I, T is not the shortest.
So, R is the shortest. Thus, we have the order : P, Q, T, S, R. So, T is in the middle.

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(7) One morning Udai and Vishal were talking to each other face to face at a crossing. If Vishal's shadow was exactly to the left of Udai, which direction was Udai facing?

- [A] East
- [B] West
- [C] North
- [D] South

Answer : [C]



Explanation:

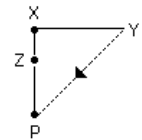
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(8) Y is in the East of X which is in the North of Z. If P is in the South of Z, then in which direction of Y, is P?

- [A] North
- [B] South
- [C] South-East
- [D] None of these

Answer : [D]

Explanation:



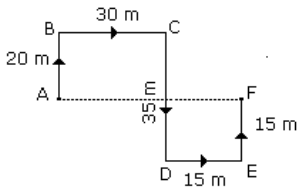
P is in South-West of Y.

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(9) Rasik walked 20 m towards north. Then he turned right and walks 30 m. Then he turns right and walks 35 m. Then he turns left and walks 15 m. Finally he turns left and walks 15 m. In which direction and how many metres is he from the starting position?

- [A] 15 m West
- [B] 30 m East
- [C] 30 m West
- [D] 45 m East

Answer : [D]



$$\begin{aligned}
 \text{Required distance} &= AF \\
 &= 30 + 15 \\
 &= 45 \text{ m.}
 \end{aligned}$$

From the above diagram, F is in East direction from A.

Hence the required answer is '45 m East'.

Explanation:

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(10) Two cars start from the opposite places of a main road, 150 km apart. First car runs for 25 km and takes a right turn and then runs 15 km. It then turns left and then runs for another 25 km and then takes the direction back to reach the main road. In the mean time, due to minor break down the other car has run only 35 km along the main road. What would be the distance between two cars at this point?


[A] 65 km

[B] 75 km

[C] 80 km

[D] 85 km

Answer : [A]

Explanation: 

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(11) Amit started walking positioning his back towards the sun. After some time, he turned left, then turned right and towards the left again. In which direction is he going now?

[A] North or South

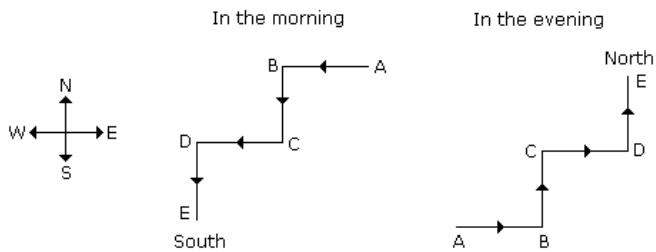
[B] East or West

[C] North or West

[D] South or West

Answer : [A]

Explanation:



If he starts walking in the morning then finally he will face towards South and if he starts in the evening then finally he will face towards North.

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(12) Statements: All the papers are books. All the bags are books. Some purses are bags.

Conclusions:

I. Some papers are bags.

II. Some books are papers.

III. Some books are purses.

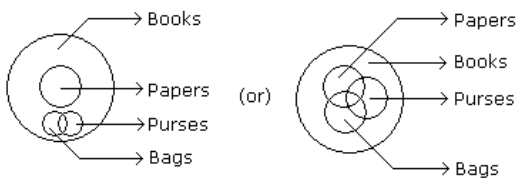
[A] Only (1)

[B] Only (2) and (3)

[C] Only (1) and (2)

[D] Only (1) and (3)

Answer : [B]



Explanation: Only (2) and (3) follows.

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(13) Statements: All the locks are keys. All the keys are bats. Some watches are bats.

Conclusions:

I. Some bats are locks.

II. Some watches are keys.

III. All the keys are locks.

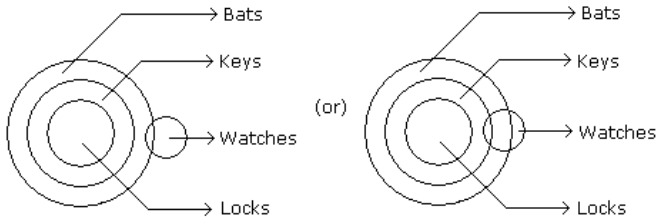
[A] Only (1) and (2)

[B] Only (1)

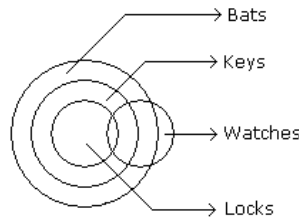
[C] Only (2)

[D] Only (1) and (3)

Answer : [B]



Only (1) follows.



Explanation:

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(14) Statements: Some keys are staplers. Some staplers are stickers. All the stickers are pens.

Conclusions:

I. Some pens are staplers.

II. Some stickers are keys.

III. No sticker is key.

IV. Some staplers are keys.

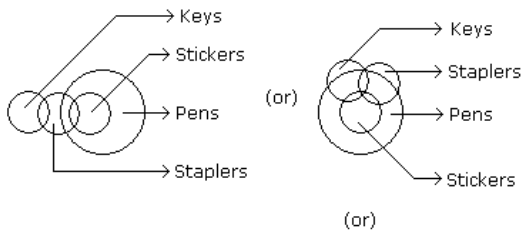
[A] Only (1) and (2)

[B] Only (2) and (4)

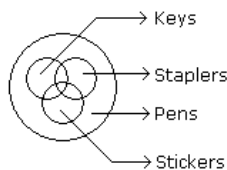
[C] Only (2) and (3)

[D] Only (1) and (4) and either (2) or (3)

Answer : [D]



Only (1) and (4) follow.



Explanation:

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(15) Statements: Some cars are jeeps. All the boxes are jeeps. All the pens are cars.

Conclusions:

I. Some cars are boxes.

II. No pen is jeep.

III. Some boxes are cars.

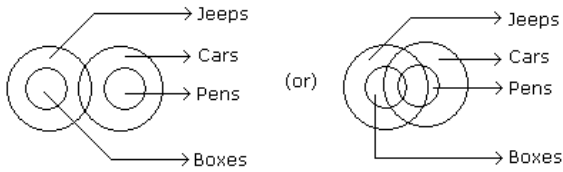
[A] None of three

[B] Only (1) and (2)

[C] Only (1) and (3)

[D] Only (2) and (3)

Answer : [A]



Explanation: None of the three follows.

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(16) REASON : SFBTPO :: THINK : ?

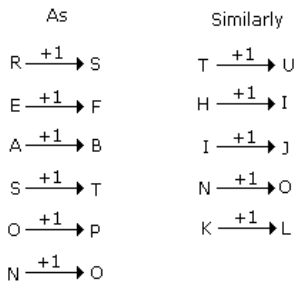
[A] SGHMJ

[B] UIJOL

[C] UHNKI

[D] UJKPM

Answer : [B]



Explanation:

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(17) ACFJ : ZXUQ :: EGIN : ?

[A] VUSQ

[B] UTRP

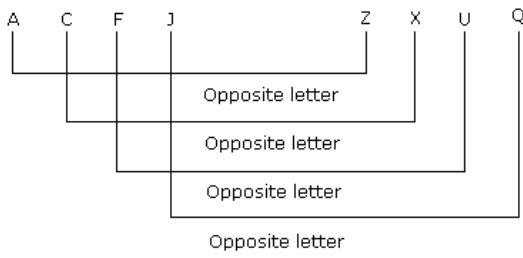
[C] VRPM

[D] VTRM

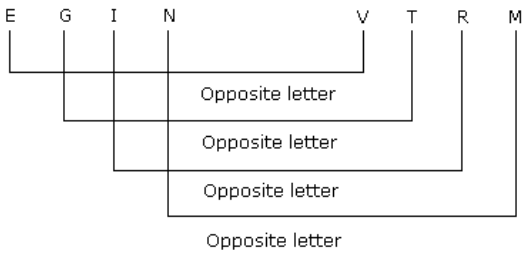
Answer : [D]

Note: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
 ↓ ↓ ... ↓ ... ↓
 Z Y X W V U T S R Q P O N M L K J I H G F E D C B A

As,



Similarly,



Explanation:

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(18) 3 : 12 :: 5 : ?

- [A] 25
- [B] 35
- [C] 30
- [D] 15

Answer : [C]

$$3 \xrightarrow{(3)^2 + 3} 12$$

$$5 \xrightarrow{(5)^2 + 5} 30$$

Explanation:

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(19) 14 : 9 :: 26 : ?

- [A] 12
- [B] 13
- [C] 31
- [D] 15

Answer : [D]

Explanation:
 14 = (2 x 9 - 4)
 26 = (2 x 15 - 4)
 ? = 15

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(20) Arid, Parched, Droughty

- [A] Draft
- [B] Earth

[C] Dry

[D] Cow

Answer : [C]

Explanation: The synonym of arid, parched and droughty is dry.

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