

Book For
Air Force Common Admission Test



Common Admission Test Common Admission Test Verbal Reasoning



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Q. 1 **Question:** In a certain code, '13' means 'stop smoking' and '59' means 'injurious habit'. What do '9' and '5' mean respectively in that code ?

Statements:

- I. '157' means 'stop bad habit'.
- II. '839' means 'smoking is injurious'.

- [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 Option [C]

Explanation:

'59' means 'injurious habit' and '157' means 'stop bad habit' (from I). Thus, the common code number '5' stands for common word 'habit'. So, '9' represents 'injurious'. Hence, I is sufficient. Also, '59' means 'injurious habit' and '839' means 'smoking is injurious'. Thus, the common code number '9' stands for common word 'injurious'. So, '5' represents 'habit'. Thus, II is also sufficient.,

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Q. 2 **Arrange the words given below in a meaningful sequence.**

1. Site 2. Plan 3. Rent 4. Money 5. Building 6. Construction

- [A] 1, 2, 3, 6, 5, 4
- [B] 2, 3, 6, 5, 1, 4
- [C] 3, 4, 2, 6, 5, 1
- [D] 4, 1, 2, 6, 5, 3

Answer Option [D]

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Q. 3 **What is the smallest number of ducks that could swim in this formation - two ducks in front of a duck, two ducks behind a duck and a duck between two ducks ?**

- [A] 3
- [B] 5
- [C] 7
- [D] 9

Answer Option [A]

Explanation:

Clearly, the smallest such number is 3.



Three ducks can be arranged as shown above to satisfy all the three given conditions.

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Q. 4 **Question:** How is M related to N ?

Statements:

- I. B is the daughter of M and sister of Q.
- II. N is the son of K who is B's grandfather.

- [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 Option [D]

Explanation:

From II, we know that N is K's son and K is B's grandfather. Thus, N is the son of B's grandfather i.e. N is either father or uncle of B.

From I, B is the daughter of M. So, M is either father or mother of B.

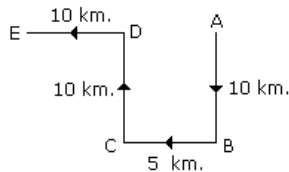
Clearly, the correct relationship between M and N cannot be deduced.

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Q. 5 Ravi left home and cycled 10 km towards South, then turned right and cycled 5 km and then again turned right and cycled 10 km. After this he turned left and cycled 10 km. How many kilometers will he have to cycle to reach his home straight?

- [A] 10 km
- [B] 15 km
- [C] 20 km
- [D] 25 km

Answer Option [B]



$$\begin{aligned}
 \text{Required distance} &= AE \\
 &= 5 + 10 \\
 &= 15 \text{ km.}
 \end{aligned}$$

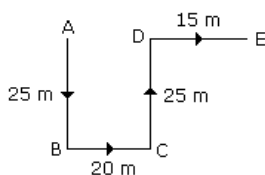
Explanation:

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Q. 6 Rohit walked 25 m towards south. Then he turned to his left and walked 20 m. He then turned to his left and walked 25 m. He again turned to his right and walked 15 m. At what distance is he from the starting point and in which direction?

- [A] 35 m East
- [B] 35 m North
- [C] 30 m West
- [D] 45 m East

Answer Option [A]



$$\begin{aligned}
 \text{Required distance} &= AE \\
 &= 20 + 15 \\
 &= 35 \text{ m towards east.}
 \end{aligned}$$

Explanation:

Q. 7 **Question: How is X related to Y ?**
Statements:

- I. Y and Z are children of D who is wife of X.
- II. R's sister X is married to Ys father.

- [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 Option [C]

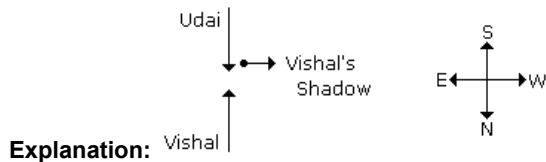
Explanation:

From I, we conclude that Y is the child of D who is wife of X i.e. X is Y's father.
From II, X is married to Y's father. This implies that X is Y's mother.

Q. 8 **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 Option [C]



Q. 9 **Question: What is the code for 'sky' in the code language ?**
Statements:

- I. In the code language, 'sky is clear' is written as 'de ra fa'.
- II. In the same code language, 'make it clear' is written as 'de ga jo'.

- [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 Option [D]

Explanation:

The only word common to I and II is 'clear' and as such, only the code for 'clear' can be ascertained from the given information.

Q. 10 **Statements:**

- I. The vegetable prices in the local market have increases manifold during the past few days.
- II. Incessant rains have created flood like situation in most rural parts of the State.

- [A] Statement I is the cause and statement II is its effect.
- [B] Statement II is the cause and statement I is its effect.
- [C] Both the statements I and II are independent causes.
- [D] Both the statements I and II are effects of independent causes.
- [E] Both the statements I and II are effects of some common cause.

Answer Option [B]

Explanation:

The transportation gets effect due to the flood created by incessant rains in the most rural parts of State. Therefore, on account of this, it is possible to increase the vegetable prices in the local market.

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Q. 11 **Question: Vinod's and Javed's salaries are in the proportion of 4 : 3 respectively. What is Vinod's salary ?**
Statements:

- I. Javed's salary is 75% that of Vinod's salary.
- II. Javed's salary is Rs 4500.

- [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 Option [B]

Explanation:

Statement I is merely an interpretation of the information contained in the question. However, Vinod's salary can be ascertained from II as follows : Let Vinod's and Javed's salaries be $4x$ and $3x$ respectively. Then, $3x = 4500$ or $x = 1500$. Therefore Vinod's salary = $4x = \text{Rs. } 6000$.

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Q. 12 **I have a few sweets to be distributed. If I keep 2, 3 or 4 in a pack, I am left with one sweet. If I keep 5 in a pack, I am left with none. What is the minimum number of sweets I have to pack and distribute ?**

- [A] 25
- [B] 37
- [C] 54
- [D] 65

Answer Option [A]

Explanation:

Clearly, the required number would be such that it leaves a remainder of 1 when divided by 2, 3 or 4 and no remainder when divided by 5. Such a number is 25.

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Q. 13 **Question: What is Sachin's rank from the top in a class of 25 students ?**
Statements:

- I. Sachin ranks three ranks above Amit who ranks 18th from the bottom.

II. Sachin's rank from the top is two ranks below Deepti who ranks 23rd from the bottom.

- [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 Option [C]

Explanation:

From I, We know that in a class of 25 students, Amit ranks 18th from the bottom and 8th from the top.

Sachin is three ranks above Amit and so, Sachin ranks 5th from the top.

From II, Deepti ranks 23rd from the bottom and hence, 3rd from the top. Sachin, being 2 ranks below Deepti, is, thus, 5th from the top.

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Q. 14 **Question: How many employees of Bank Z opted for VRS ?**
Statements:

- I. 18% of the 950 officer cadre employees and 6% of the 1100 other cadre employees opted for VRS.
- II. 28% of the employees in the age-group of 51 to 56 and 17% of the employees in all other age-groups opted for VRS.

- [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 Option [A]

Explanation:

From I, we have: number of employees who opted for VRS = 18% of 950 + 6% of 1100 = 171 + 66 = 237.

From II, we cannot get the required answer until and unless the number of employees in age-group 51 to 56 and other age-groups is known.

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Q. 15 **Arrange the words given below in a meaningful sequence.**

1. Income 2. Status 3. Education
4. Well-being 5. Job

- [A] 3, 1, 5, 2, 4
- [B] 1, 3, 2, 5, 4
- [C] 1, 2, 5, 3, 4
- [D] 3, 5, 1, 2, 4

Answer Option [D]

Explanation:

The correct order is :

Education	Job	Income	Status	Well-being
3	5	1	2	4

Q. 16 **Question: Which direction is Sunny facing now ?**
Statements:

- I. If Sunny turns to his right and again turns to his right, he will be facing North.
- II. If Sunny walks some distance and turns left and again walks some distance, then his face will be towards left of Dinesh who is facing South.

- [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 Option [C]

Explanation:

From I, we conclude that Sunny is facing South, since a person facing South shall face North on turning to his right, twice. From II, we know that after walking, Sunny shall face towards left of Dinesh facing South i.e. East and a person walking southwards shall face East on turning to 'his left. Thus, Sunny is facing South.

Q. 17 **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 Option [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.)
= $(1 \times 9 + 2 \times 90 + 3 \times 267) = (9 + 180 + 801) = 990$.

Q. 18 **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 Option [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).

Q. 19 **Statements:**

- I. The State Government has announced special tax package for the new industries to be set-up in the State.
- II. Last year the State Government had hiked the taxes for all industrial activities in the State.

- [A] Statement I is the cause and statement II is its effect.
- [B] Statement II is the cause and statement I is its effect.
- [C] Both the statements I and II are independent causes.
- [D] Both the statements I and II are effects of independent causes.
- [E] Both the statements I and II are effects of some common cause.

Answer Option [B]

Explanation: Because due to hike of taxes last year the State Government has announced special tax package the new industries to be set up in the State.

Q. 20 **In three coloured boxes - Red, Green and Blue, 108 balls are placed. There are twice as many balls in the green and red boxes combined as there are in the blue box and twice as many in the blue box as there are in the red box. How many balls are there in the green box ?**

- [A] 18
- [B] 36
- [C] 45
- [D] None of these

Answer Option [D]

Explanation:

Let R, G and B represent the number of balls in red, green and blue boxes respectively.

Then, .

$$R + G + B = 108 \dots(i),$$

$$G + R = 2B \dots(ii)$$

$$B = 2R \dots(iii)$$

From (ii) and (iii), we have $G + R = 2 \times 2R = 4R$ or $G = 3R$.

Putting $G = 3R$ and $B = 2R$ in (i), we get:

$$R + 3R + 2R = 108 \Leftrightarrow 6R = 108 \Leftrightarrow R = 18.$$

Therefore Number of balls in green box = $G = 3R = (3 \times 18) = 54$.