Data Sufficiency

Questions and

Answers

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Data sufficiency Questions and Answers

In each of the questions below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and

Give answer

- (A) If the data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question
- (B) If the data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question
- (C) If the data either in statement I alone or in statement II alone are sufficient to answer the question
- (D) If the data given in both statements I and II together are not sufficient to answer the question and

- (E) If the data in both statements I and II together are necessary to answer the question.

1. **Question:** In which year was Rahul born?
   Statements:

   I.   Rahul at present is 25 years younger to his mother.
   II. Rahul's brother, who was born in 1964, is 35 years younger to his mother.

      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 & Explanation

   Answer: Option **E**

   Explanation:

   From both I and II, we find that Rahul is (35 - 25) = 10 years older than his brother, who was born in 1964. So, Rahul was born in 1954.

2.   **Question:** What will be the total weight of 10 poles, each of the same weight?
   Statements:
          I.One-fourth of the weight of each pole is 5 kg.
   II.The total weight of three poles is 20 kilograms more than the total weight of two poles.

    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 & Explanation

Answer: Option **C**

Explanation:

From I, we conclude that weight of each pole = (4x5) kg = 20 kg.

So, total weight of 10 poles = (20 x 10) kg = 200 kg.

From II, we conclude that:
Weight of each pole = (weight of 3 poles) - (weight of 2 poles) = 20 kg. So,

total weight of 10 pojes = (20 x 10) kg = 200 kg.

3.   **Question:** How many children does M have ?
    Statements:
      I.H is the only daughter of X who is wife of M.
II.K and J are brothers of M.

    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 & Explanation

Answer: Option **D**

Explanation:
From I, we conclude that H is the only daughter of M. But this does not indicate that M has no son. The information given in II is immaterial.

4.   **Question:** How much was the total sale of the company ?
    Statements:
      I.The company sold 8000 units of product A each costing Rs. 25.
     II.This company has no other product line.

    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 & Explanation

Answer: Option **E**

Explanation:

From I, total sale of product A = Rs. (8000 x 25) = Rs. 200000.

From II, we know that the company deals only in product A.

This implies that sale of product A is the total sale of the company, which is Rs. 200000.

5.   **Question:** The last Sunday of March, 2006 fell on which date ?
        Statements:
            I.The first Sunday of that month fell on 5th.
II.The last day of that month was Friday.

   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 & Explanation

Answer: Option **C**

Explanation:

From I, we conclude that 5th, 12th, 19th and 26th of March, 2006 were Sundays.

So, the last Sunday fell on 26th.

From II, we conclude that 31st March, 2006 was Friday. Thus, 26th March, 2006 was the last Sunday of the month.

6.   **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.

   7. **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 & Explanation
Answer: Option **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.

8. **Question:** How is T related to K?
Statements:
   I.R's sister J has married T's brother L, who is the only son of his parents.
   II.K is the only daughter of L and J.

     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 & Explanation
Answer: Option **E**

Explanation:

From I, we know that L is T's brother and J's husband. Since L is the only son of his parents, T is L's sister.
From II, we know that K is L's daughter.
Thus, from I and II, we conclude that T is the sister of K's father i.e. T is K's aunt.

9. **Question:** How is J related to P ?
Statements:

   I.M is brother of P and T is sister of P.

   II.   P's mother is married to J's husband who has one son and two daughters.

     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 & Explanation

Answer: Option **B**

Explanation:

From II, we know that P's mother is married to J's husband, which means that J is P's mother.

10.   **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 & Explanation

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.

11.   **Question:** Who is to the immediate right of P among five persons P, Q, R, S and T facing North ?

Statements:

I. R is third to the left of Q and P is second to the right of R.

II.   Q is to the immediate left of T who is second to the right of P.

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 & Explanation

Answer: Option **C**

Explanation:

From I, we have the order: R, -, P, Q.

From II, we have the order: P, Q, T.

Clearly, each one of the above two orders indicates that Q is to the immediate right of P.

12.   **Question:** On which date of the month was Anjali born in February 2004 ?

Statements:

I.Anjali was born on an even date of the month.

II.   Anjali's birth date was a prime number.

    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 & Explanation

Answer: Option **E**

Explanation:

From I and II, we conclude that Anjali was born in February 2004 on a date which is an even prime number. Since the only even prime number is 2, so Anjali was born on 2nd February,

2004.

13.   **Question:** How is X related to Y?

Statements:

I.Y says, "I have only one brother".

II.   X says, "I have only one sister".

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 & Explanation

Answer: Option **D**

Explanation:

The statements in I and II do not provide any clue regarding relation between X and Y.

14.   **Question:** How is F related to P?

Statements:

I.P has two sisters M and N.

II.   F's mother is sister of M's 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 & Explanation

Answer: Option **E**

Explanation:

From I and II, we conclude that P is M's brother and so M's father is P's father. So, F is the child of the sister of P's father i.e. F's mother is P's aunt or F is P's cousin.

15.   **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 & Explanation

Answer: Option **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.

16.   **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 & Explanation

Answer: Option **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.

17.   **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 & Explanation

Answer: Option **B**

Explanation:

From I, total number of doctors in town = (1/700 x 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) x (Number of doctors in each ward)

= 16 x 16 = 256.

18.   **Question:** On which day of the week was birthday of Sahil ?

 Statements:

   I.Sahil celebrated his birthday the very next day on which Arun celebrated his birthday.

II.   The sister of Sahil was born on the third day of the week and two days after Sahil was born.

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 & Explanation

Answer: Option **B**

Explanation:

I does not mention the day of the week on the birthday of either Arun or Sahil.

According to II, Sahil's sister was born on Wednesday and Sahil was born two days before Wednesday i.e. on Monday.

19.   **Question:** How many pages of book X did Robert read on Sunday ?

Statements:

   I.The book has 300 pages out of which two-thirds were read by him before Sunday.

II.   Robert read the last 40 pages of the book on the morning of Monday.

   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 & Explanation

Answer: Option **E**

Explanation:

From I and II, we find that Robert read (300 x 2/3) i.e. 200 pages before Sunday and the last 40 pages on Monday.

This means that he read [300 - (200 + 40)] i.e. 60 pages on Sunday.

20.   **Question:** How is Tanya related to the man in the photograph ?

Statements:

I.Man in the photograph is the only son of Tanya's grandfather.

II.   The man in the photograph has no brothers or sisters and his father is Tanya'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 & Explanation

Answer: Option **C**

Explanation:

From I, we conclude that the man is the only son of Tanya's grandfather i.e. he is Tanya's father or Tanya is the man's daughter.

From II, we conclude that the man's father is Tanya's grandfather. Since the man has no brothers or sisters, so he is Tanya's father or Tanya is the man's daughter.

21.   **Question:** Among T, V, B, E and C, who is the third from the top when arranged in the
descending order of their weights ?

Statements:

I. B is heavier than T and C and is less heavier than V who is not the heaviest.

II.   C is heavier than only T.

    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 & Explanation

Answer: Option **A**

Explanation:

From I, we have: B > T, B > C, V > B. Thus, V is heavier than each one of B, T and C. But V is not the heaviest. So, E is the heaviest.

Thus, we have the order. E>V>B>T>C or E>V>B>C>T. Clearly, B is third from the top.

22.   **Question:** Which word in the code language means 'flower' ?

Statements:

I. 'de fu la pane' means 'rose flower is beautiful' and 'la quiz' means 'beautiful tree'.

II.   'de la chin' means 'red rose flower' and 'pa chin' means 'red tea'.

    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 & Explanation

Answer: Option **D**

Explanation:

From the two statements given in I, the code for the only common word 'beautiful' can be determined.

From the two statements given in II, the code for the only common word 'red' can be determined.

In I and II, the common words are 'rose and 'flower' and the common code words are 'de' and

'la'. So, the code for 'flower' is either 'de' or 'la'.

23.   **Question:** How many students in a class play football ?

Statements:

    I.Only boys play football.

II.   There are forty boys and thirty girls in the class.

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 & Explanation

Answer: Option **D**

Explanation:

It is not mentioned whether all the boys or a proportion of them play football.

24.   **Question:** Who is C's partner in a game of cards involving four players A, B, C and D ?

Statements:

I. D is sitting opposite to A.

II.   B is sitting right of A and left of D.

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 & Explanation

Answer: Option **C**

Explanation:

Clearly, each of the given statements shows that B is sitting opposite to C or B is the partner of C.

25.   **Question:** On a T.V. channel, four serials A, B, C and D were screened, one on eacn day, on four consecutive days but not necessarily in that order. On which day was the serial C screened ?

Statements:

I. The first serial was screened on 23rd, Tuesday and was followed by serial D.

II.   Serial A was not screened on 25th and one serial was screened between serials A and B.

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 & Explanation

Answer: Option **E**

Explanation:

From I, we know that the serials were screened on 23rd, 24th, 25th and 26th.

Clearly, D was screened second i.e. on 24th, Wednesday.

From II, we know that one serial was screened between A and B.

So, A and B were screened first and third, i.e. on 23rd and 25th. But, A was not screened on 25th.

So, A was screened on 23rd and B on 25th. Thus, C was screened on 26th, Friday.

26.   **Question:** How is Sulekha related to Nandini ?

Statements:

I.Sulekha's husband is the only son of Nandini's mother.

II.   Sulekha's brother and Nandini's husband are cousins.

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 & Explanation

Answer: Option **C**

Explanation:

From I, we conclude that Sulekha is the wife of Nandini's mother's only son i.e. Nandini's brother. Thus, Sulekha is Nandini's sister-in-law.

From II, we conclude that Sulekha is the cousin of Nandini's husband, which implies that Sulekha is Nandini's sister-in-law.

27.   **Question:** Can Ritesh retire from office X in January 2006, with full pension benefits ?

Statements:

I.Ritesh will complete 30 years of service in office X in April 2000 and desires to retire.

II.   As per office X rules, an employee has to complete minimum 30 years of service and attain age of 60. Ritesh has 3 years to complete age of 60.

    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 & Explanation

Answer: Option **E**

Explanation:

Clearly, the facts given in I and II contain two conditions to be fulfilled to get retirement and

also indicate that Ritesh fulfills only one condition out of them.

28.   **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 & Explanation

Answer: Option **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'.

29.   **Question:** Madan is elder than Kamal and Sharad is younger than Arvind. Who among them is the youngest ?

Statements:

    I. Sharad is younger than Madan.

  II.   Arvind is younger than Kamal.

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 & Explanation

Answer: Option **B**

Explanation:

As given, we have: M > K, A > S.

From II, K > A. Thus, we have: M > K > A > S.

So, Sharad is the youngest. From I, M > S. Thus, we have: M>K>A>S or M>A>K>S or M>A>S>K.

30.   **Question:** On which date in August was Kapil born ?

Statements:

I.Kapil's mother remembers that Kapil was born before nineteenth but after fifteenth.

II.   Kapil's brother remembers that Kapil was born before seventeenth but after twelfth.

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 & Explanation

Answer: Option **E**

Explanation:

From I, we conclude that Kapil was born on any one of the dates among 16th, 17th and 18th.

From II, we conclude that Kapil was born on any one of the dates among 13th, 14th, 15th and 16th.

Thus, from both I and II, we conclude that Kapil was born on 16th August.

31.   **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 & Explanation

Answer: Option **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.

32.   **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 & Explanation

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.,

33.   **Question:** How much money do Vivek and Suman have together ?

Statements:

I.Suman has 20 rupees less than what Tarun has.

II.   Vivek has 30 rupees more than what Tarun has.

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 & Explanation

Answer: Option **D**

Explanation:

From I, we have: S = T - 20. From

II, we have: V = T + 30.

Thus, from both I and II, we have: V + S = (T + 30) + (T - 20) = (2 T + 10). So,

to get the required amount, we need to know the amount that Tarun has.

34.   **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 & Explanation

Answer: Option **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.

35.   **Question:** Who among P, Q, R, S and T is the lightest?

Statements:

I. R is heavier than Q and T but lighter than S.

II.   S is not the heaviest.

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 & Explanation

Answer: Option **D**

Explanation:

From I, we have: R>Q, R>T, S>R i.e. S>R>Q>T or S>R>T>Q.

From II, S is not the heaviest. So, P is the heaviest. Thus, we have: P > S > R > Q > T or P > S > R > T > Q. Hence, either T or Q is the lightest.

36.   **Question:** How is T related to K?

Statements:

I.K has two sons; one of the sons is A.

II.   The mother of T has only two sons - Aand B.

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 & Explanation

Answer: Option **E**

Explanation:

From II, we know that T's mother has only two sons, A and B. This implies that T is the sister of both A and B. But, from I, A is also K's son. So, T is the daughter of K.

37.   **Question:** What is the shortest distance between Devipur and Durgapur ?

Statements:

I.Durgapur is 20 kms away from Rampur.

II.   Devipur is 15 kms away from Rampur.

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 & Explanation

Answer: Option **D**

Explanation:

Clearly, the distance of each village from Rampur is given in I and II. But nothing about their relative positions is mentioned. So, the distance between the two villages cannot be calculated.

38.   **Question:** How is A related to D ?

Statements:

I.B is the brother of A.

II.   B is D's son.

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 & Explanation

Answer: Option **D**

Explanation:

From I and II, we conclude that A is either son or daughter of D.

39.   **Question:** Manoj, Prabhakar, Akash and Kamal are four friends. Who among them is the heaviest ?

Statements:

I.Prabhakar is heavier than Manoj and Kamal but lighter than Akash.

II.   Manoj is lighter than Prabhakar and Akash but heavier than Kamal.

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 & Explanation

Answer: Option **A**

Explanation:

From I, we have: P > M, P > K, A > P.

Thus, A > P > M > K or A > P > K > M. So, Akash is the heaviest.

From II, we have: P > M, A > M, M > K.

Thus, A > P > M > K or P > A > M > K. So, either Akash or Prabhakar is the heaviest.

40.   **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 & Explanation

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 = Rs. 6000.

41.   **Question:** What is Nitin's rank from the top in a class of forty students ?

Statements:

   I.There are ten students between Nitin and Deepak.

II.   Deepak is twentieth from the top.

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 & Explanation

Answer: Option **D**

Explanation:

Since there are ten students between Nitin and Deepak, so Nitin may be eleven ranks above or below Deepak. Thus, Nitin may be 9th or 31st from the top.

42.   **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 & Explanation

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.

43.   **Question:** T studies in which of the schools B, C, D, E and F ?

 Statements:

   I.T does not study in the same school as either R or J.

II.   R and J study in schools D and F respectively.

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 & Explanation

Answer: Option **D**

Explanation:

As given in I and II, R studies in school D and J studies in school F. So, T does not study in school D or school F. Thus, T studies in any one of the schools B, C or E.

44.   **Question:** How is Divya related to Shaloo ?

Statements:

I.Divya's mother is sister of Shaloo's father.

II.   Shaloo is the daughter of Divya's grandfather's only child.

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 & Explanation

Answer: Option **C**

Explanation:

From I, we conclude that Divya's mother is Shaloo's aunt or Divya is Shaloo's cousin.

Now, Divya's grandfather's only child is Divya's parent. So, from II, we conclude that Shaloo and Divya are daughters of the same parents i.e. Divya is Shaloo's sister.

45.   **Question:** How many New Year's greeting cards were sold this year in your shop ?

   Statements:

   I.Last year 2935 cards were sold.

II.   The number of cards sold this year was 1.2 times that of last 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 & Explanation

Answer: Option **E**

Explanation:

From both I and II, we find that the number of cards sold this year = (2935 x 1.2) = 3522.
46.   **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 & Explanation

Answer: Option **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.

47.   **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 & Explanation

Answer: Option **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'.

48.   **Question:** Among A, B, C, D and E, who is in the middle while standing in a row ?

Statements:

I. C, who is third to the left of D, is to the immediate right of A and second to the left of E.

II.   C is second to the left of E, who is not at any of the ends and who is third to the right of A. D is at one of the ends.

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 & Explanation

Answer: Option **C**

Explanation:

From each one of I and II, we get the order : A, C, B, E, D. Clearly, B is in the middle.

49.   **Question:** Among A, B, C, D, E and F, who is the heaviest ?

      Statements:

I.A and D are heavier than B, E and F but none of them is the heaviest.

      II.   A is heavier than D but lighter than C.

   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 & Explanation

Answer: Option **A**

Explanation:

From I, we conclude that since none of A and D is the heaviest and each one of B, E and F is lighter than both A and D, so C is the heaviest.

Section-2

In each of the questions below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and

Give answer

- (A) If the data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question
- (B) If the data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question
- (C) If the data either in statement I alone or in statement II alone are sufficient to answer the question
- (D) If the data given in both statements I and II together are not sufficient to answer the question and

- (E) If the data in both statements I and II together are necessary to answer the question.
1. **Question:** How is 'No' coded in the code language ?

   Statements:

I.'Ne Pa Sic Lo' means 'But No None And' and 'Pa Lo Le Ne' means 'If None And But'.

   II.   'Le Se Ne Sic' means 'If No None Will' and 'Le Pi Se Be' means 'Not None If All'.

 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 & Explanation

   Answer: Option **A**

Explanation:

In the two statements given in I, the common words are 'But', 'None', 'And' and the

common code words are 'Ne', 'Pa', ,'Lo'. So, 'Ne', 'Pa' and 'Lo' are codes for 'But', 'None' and 'And'. Thus, in the first statement, 'Sic' is the code for 'No'.

2.   **Question:** Who among P, Q, T, V and M is exactly in the middle when they are arranged in ascending order of their heights ?

   Statements:

I.V is taller than Q but shorter than M.

   II.   T is taller than Q and M but shorter than P.

   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 & Explanation

Answer: Option **E**

Explanation:

From I, we have: M > V > Q.

From II, we have: T > Q, T > M, P > T.

Combining the above two, we have: P>T>M>V>Q i.e. Q<v<m<t<p.< p=""></v<m<t<p.<>

Clearly, M is in the middle.

3.   **Question:** Which code word stands for 'good' in the coded sentence 'sin co bye' which means 'He is good' ?

Statements:

I. In the same code language, 'co mot det' means 'They are good'.

II.   In the same code language, 'sin mic bye' means 'He is honest'.

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 & Explanation

Answer: Option **C**

Explanation:

In the given statement and I, the common word is 'good' and the common code word is 'co'. So, 'co' is the code for 'good'.

In the given statement and II, the common words are 'He' and 'is' and the common code words are 'sin' and 'bye'. So 'sin' and 'bye' are the codes for 'He' and 'is'. Thus, in the given statement, 'co' is the code for 'good'.

4.   **Question:** What is the numerical code for 'water' in a certain code ?

   Statements:

I.The code for 'give me water' is '719'.

   II.   The code for 'you can bring water for me' is written as '574186'.

   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 & Explanation

   Answer: Option **D**

   Explanation:

   In I and II, the common words are 'me' and 'water' and the common code numbers

   are '7' and '1'. So, the code for 'water' is either '7' or '1'.

5.   **Question:** How many visitors saw the exhibition yesterday ?

   Statements:

I.Each entry pass holder can take up to three persons with him/her.

   II.   In all, 243 passes were sold yesterday.

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 & Explanation

Answer: Option **D**

Explanation:

From I and II, we find that maximum (243 x 3) i.e. 729 visitors saw the exhibition.

But the exact number cannot be determined.

6.　　**Question:** Gaurav ranks eighteenth from the top in a class. What is his rank from the last?

Statements:

I.There are 47 students in the class.
II.Jatin who ranks 10th in the same class, ranks 38th from the last.

B.　　I alone is sufficient while II alone is not sufficient

C.　II alone is sufficient while I alone is not sufficient

D.　Either I or II is sufficient

E.　Neither I nor II is sufficient

F.　Both I and II are sufficient

Answer: Option **C**

Explanation:

From I, we conclude that in a class of 47 students, Gaurav ranks 18th from the top and hence 30th from the last.
From II, we conclude that there are 9 students above and 37 students below Jatin in rank. Thus, there are (9 + 1 + 37) = 47 students in the class
So, Gaurav who ranks 18th from the top, is 30th from the last.

7.   **Question:** What is the rank of P from the bottom in a class of 30 students ?

      Statements:

I.M is third from the top and there are five students between M and P.

    II.   The rank of K is fourth from the bottom and there are 17 students between K and P.

  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 & Explanation

Answer: Option **C**

Explanation:

From I, we conclude that P is 9th from the top. Thus, in a class of 30 students, P ranks 22nd from the bottom.

From II, we conclude that P is 22nd from the bottom.

8.   **Question:** In a row of five buildings - P, Q, R, S and T, which building is in the middle ?

      Statements:

I.Buildings S and Q are at the two extreme ends of the row.

II.   Building ,T is to the right of building R.

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 & Explanation

Answer: Option **D**

Explanation:

From I, we have the order : S, -, -, -, Q. From II, we have the order : R, T. Combining the above two, we get two possible orders : S, R, T, P, Q or S, P, R, T, Q. Thus, either T or R is in the middle.

9.   **Question:** How many speeches were delivered in the two days' programme ?

Statements:

I.18 speakers were invited to give at least one speech (maximum of two speech), out of which one-sixth of the speakers could not come.

II.   One-third of the speakers gave two speeches each.

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 & Explanation

Answer: Option **E**

Explanation:

From I, we find that number of speakers who attended programme =18-(1/6) of 18 = 15.

From II, we find that one-third of 15 i.e. 5 speakers gave 2 speeches each, while each of the remaining 10 speakers delivered only one speech.

So, total number of speeches delivered = (5 x 2 + 10 x 1) = 20.

10.   **Question:** Among five friends, who is the tallest ?

Statements:

I.D is taller than A and C.

II.   B is shorter than E but taller than D.

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 & Explanation

Answer: Option **E**

Explanation:

From I, we have: D > A, D > C.

From II, we have: E > B > D.

Combining the above two, we get : E > B > D > A > C or E > B > D > C > A.

Thus, E is the tallest.

11.   **Question:** What time did the train leave today ?

Statements:

I. The train normally leaves on time.

II.   The scheduled departure is at 14 : 30.

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 & Explanation

Answer: Option **D**

Explanation:

Clearly, even both I and II together do not reveal the exact time of departure of the train today.

12.   **Question:** What does '$' mean in a code language?

   Statements:

I.'5$#3' means 'flowers are really good'.

   II.   '7#35' means 'good flowers are available'.

 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 & Explanation

Answer: Option **E**

Explanation:

In I and II, the common codes are '5', '#' and '3' and the common words are 'flowers', 'are' and 'good'. Thus, in I, the remaining code '$' stands for 'really'.

13.   **Question:** How many sons does D have ?

   Statements:

I.A's father has three children.

   II.   B is A's brother and son of D.

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 & Explanation

Answer: Option **D**

Explanation:

From both I and II together, we can conclude that A and B are the children of D, but the sex of

A and the third child of D is not known. So, both I and II together are also not sufficient to answer the question.

14.   **Question:** How is M related to N?

 Statements:

I.P, who has only two kids, M and N, is the mother-in-law of Q, who is sister-in-law of N.

II.   R, the sister-in-law of M, is the daughter-in-law of S, who has only two kids, M and N.

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 & Explanation

Answer: Option **A**

Explanation:

From I, we conclude that P is the mother of M and N, while Q is the daughter-in-law of P and sister-in-law of N. Thus, Q is M's wife and hence, M is N's brother.

From II, we conclude that M and N are the children of S. Also, R is the daughter-in-law of S and sister-in-law of M. So, R is N's wife and thus, N is M's brother. Hence, M is either brother or sister of N.

15.   **Question:** What is the colour of the fresh grass ?

Statements:

I.Blue is called green, red is called orange, orange is called yellow.

II.   Yellow is called white, white is called black, green is called brown and brown is called purple.

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 & Explanation

Answer: Option **B**

Explanation:

The colour of fresh grass is 'green' and as given in II, 'green' is called 'brown'. So, the colour of fresh grass is 'brown'.

16.   **Question:** Which train did Aman catch to go to office ?

Statements:

I.Aman missed his usual train of 10.25 a.m. A train comes in every 5 minutes.

   II.   Aman did not catch the 10.40 a.m. train or any train after that time.

   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 & Explanation

Answer: Option **D**

Explanation:

From I and II, we conclude that Aman went to office by either 10.30 a.m. or 10.35 a.m. train.

17.   **Question:** On which day of the week did Hitesh visit the zoo ?

Statements:

I.Hitesh did not visit zoo either on Tuesday or on Thursday.

II.   Hitesh visited zoo two days before his mother reached his house which was day after Monday.

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 & Explanation

Answer: Option **B**

Explanation:

According to I, Hitesh visited the zoo on any of the week days except Tuesday and Thursday.

According to II, Hitesh's mother reached his house day after Monday i.e. on Tuesday.

Thus, Hitesh visited zoo two days before Tuesday i.e. on Sunday.

18.   **Question:** The Chairman of a big company visits one department on Monday of every week except for the Monday of third week of every month. When did he visa/the Purchase department ?

Statements:

I.He visited Accounts department in the second week of September after having visited Purchase department on the earlier occasion.

II.   He had visited Purchase department immediately after visiting Stores department but before visiting Accounts department.

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 & Explanation

Answer: Option **A**

Explanation:

From I, we can conclude that the Chairman visited Purchase department on Monday of the first week of September.

The time of visit of no department is mentioned in II, which is, therefore, insufficient.

19.   **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 & Explanation

Answer: Option **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.

20.   **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 & Explanation

Answer: Option **E**

Explanation:

From both I and II, we find that:

Prashant's salary = 115% of (90% of Rs 2500) = Rs 2587.50.

21.   **Question:** How many gift boxes were sold on Monday ?

Statements:

I.It was 10% more than the boxes sold on the earlier day i.e. Sunday.

II. Every third visitor to the shop purchased the box and 1500 visitors were there on Sunday

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 & Explanation

Answer: Option **E**

Explanation:

From II, we can conclude that (1500 * 3) = 500 boxes were sold on Sunday.

Thus, from I, we find that number of boxes sold on Monday = 500 + 10% of 500 = 550.

22. **Question:** In a certain code language, '297' means 'tie clip button'. Which number means 'button' in that language ?

Statements:

I.In that language, '926' means clip your tie'.

II. In that language, '175' means 'hole and button'.

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 & Explanation

Answer: Option **C**

Explanation:

In given statement and I, the common words are 'tie' and 'clip' and the common codes are '2' and '9'. So, '2' and '9' are the codes for 'tie' and 'clip'. Thus, in the given statement, '7' means 'button'. In given statement and II, the common code word '7' represents the common word 'button'.

23.   **Question:** What is Sumit's position from the right end in a row of children?

    Statements:

I.There are 10 children between Sumit and Rajan.

   II.   Rajan is twentieth from the left end of the row of children.

 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 & Explanation

Answer: Option **D**

Explanation:

Clearly, neither the number of children in the row is given nor the position of Sumit relative to Rajan is mentioned in any one of I or II.

24.   **Question:** In a certain code, 'nop al ed' means They like flowers'. Which code word means 'flowers' ?

Statements:

I.'id nim nop' means 'They are innocent'.

II.   'gob ots al' means 'We like roses'.

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 & Explanation

Answer: Option **E**

Explanation:

In the given statement and I, the common word is 'They' and the common code word is 'nop'. So, 'nop' is the code for 'They'.

In the given statement and II, the common word is 'like' and the common code word is 'al'. So, 'al' is the code for 'like'.

Thus, in the given statement, 'ed' is the code for 'flowers'.

25.   **Question:** What is the code for 'mangoes' in the code language ?

Statements:

I.In that code language, 'Te Le Pa Na' means 'You eat many mangoes' and 'Le Na Da' means 'You sell mangoes'.

II.   In the code language, 'Ge Na Se La Le' means 'They eat bananas and mangoes' and 'Ne De Le La' means 'Who others eat bananas'.

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 & Explanation

Answer: Option **E**

Explanation:

In 'You eat many mangoes' and 'Who others eat bananas', the common word is 'eat' and the common code word is 'Le'. So, 'Le' means 'eat'.

In 'You eat many mangoes' and 'They eat bananas and mangoes', the common code word 'Le' stands for 'eat'. So, the other common code word 'Na' stands for the other common word i.e. 'mangoes'.

26.   **Question:** In a row of five children A, B, C, D and E, who is standing in the middle ?

Statements:

I.D is to the immediate right of E and B is to the immediate left of E.

II.   B is at the extreme left of the, row.

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 & Explanation

Answer: Option **E**

Explanation:

From I, we have the order: B, E, D.

From II, B is at the extreme left of the row.

Thus, considering both I and II, we conclude that among the five children, D is the third and hence the middle child in the row.

27.   **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 & Explanation

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.

28.   **Question:** Among M, N, D, P and K, who earns more than only the least earner among them ?

Statements:

I. N earns more than M and P but less than only D.

II.   M earns more than P who earns less than K.

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 & Explanation

Answer: Option **D**

Explanation:

From I, we have: N > M, N > P, D > N. Thus, we have: D > N > M > P or D>N> P>M.

But, from II, M earns more than P i.e. D > N > M > P. Also, since P earns less than K and N earns less than only D, so we have: D>N>K>M>P or D>N>M> K > P.

Hence, either K or M earns more than only the least earner i.e. P.

29.   **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 & Explanation

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.

30.   **Question:** It is 8.00 p.m., when can Hemant get next bus for Ramnagar from Dhanpur?

   Statements:

I.Buses for Ramnagar leave after every 30 minutes, till 10 p.m.

   II.   Fifteen minutes ago, one bus has left for Ramnagar.

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 & Explanation

Answer: Option **E**

Explanation:

II reveals that the previous bus had left at 7.45 p.m. As given in I, the next bus would leave after 30 minutes i.e. at 8.15 p.m.

31.   **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 & Explanation

Answer: Option **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.

32.   **Question:** How is R related to M ?

Statements:

I.M's brother is husband of P.

II. P is mother of R's sister.

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 & Explanation

Answer: Option **D**

Explanation:

From II, we conclude that P is R's mother.

From I, we conclude that M is the brother or sister of P's husband, who is also R's father. Thus, R is either nephew or niece of M.

33. **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 & Explanation

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.

Section-3

1. **Question:** What is Suman's rank from the top in a class of forty students ?

   Statements:

I.Suman is 3 ranks below Deepak from the top.
II.Deepak's rank from the bottom is 23.

   III.   Suman is 3 ranks above Deepak from the bottom.

   A.   Any two of the three

      B. Only I and II

      C. Only II and III

      D. All I, II and III

E.   Only II and either I or III

Answer & Explanation

Answer: Option **E**

Explanation:

From II, we conclude that in a class of 40, Deepak ranks 23rd from the bottom i.e. 18th from the top.

From I and II, we find that Suman is 3 ranks below 18th rank from the top i.e. she ranks 21st from the top.

From II and III, we find that Suman is 3 ranks above 23rd rank from the bottom

i.e. she ranks 20th from the bottom or 21st from the top.

2.   **Question:** Five persons - A, B, C, D and E are sitting in a row. Who is sitting in the middle?

   Statements:

I.B is between E and C.

   II.   B is to the right of E.

   III.   D is between A and E.

A.   Only I and II

   B.   Only II and III

   C.   Only I and III

   D.   All I, II and III

   E.   None of these

Answer & Explanation

Answer: Option **D**

Explanation:

From I, the order is : E, B, C or C, B, E.

From II, the order is : E, B.

From III, the order is : A, D, E.

Combining the above three, we get the order as : A, D, E, B, C. Clearly, E is sitting in the middle.

3.   **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 & Explanation

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).

4.   **Question:** In which year was Sanjay born ?

   Statements:

I. Sanjay is six years older than Gopal.
II. Gopal's brother was born in 1982.

   III.   Sanjay's brother is two years younger than Gopal's brother who was eight years younger than Gopal.

   A.   Only I and II

   B. Only II and III

   C. Only I and III

   D. All I, II and III

   E. None of these

Answer & Explanation

Answer: Option **D**

Explanation:

From II, we know that Copal's brother was born in 1982.

From III, we find that Gopal's brother was 8 years younger to him i.e. Gopal was born in 1974.

From I, we find that Sanjay is 6 years older than Gopal. Thus, Sanjay was born in 1968.

5.   **Question:** Who among Siddhartha, Nikunj, Vipul and Mukul is the youngest?

Statements:

I. Vipul is younger than Mukul but older than Siddhartha and Nikunj.

II.   Mukul is the oldest.

III.   Siddhartha is older than Nikunj.

A.   Only I

B.   Only I and II

C.   Only II and III

D.   Only I and III

E.   None of these

Answer & Explanation

Answer: Option **D**

Explanation:

From I, we have: M > V, V > S, V > N ...(i)

From II, we have: Mukul is the oldest ...(ii)

From III, we have: S > N ...(iii)

Combining (i) and (iii), we get :M > V, V >S > N or M>V > S > N. Clearly, Nikunj is the youngest.

6.   **Question:** In a certain code, 'XYZ' means 'We are friends'. Which letter stands for 'We' ?

Statements:

I. 'PYN' means 'They are classmates'.
II. 'ZMS' means 'We love them'.

III.   'PX' means 'Hello friends',

A.   Only II

   B. Only I and III

   C. All I, II and III

   D. Either I only or II only

   E. None of these

Answer & Explanation

Answer: Option **E**

Explanation:

To find the code for 'we', we need to have any of the following:

i.'We are friends' should have only 'We' common with another statement, as in II;

   ii. 'We are friends' should have only 'are' and 'friends' common with another single or two statements, as in I and III. Thus, we need Either II only or I and III only.

7.   **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 & Explanation

Answer: Option **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.

8.   **Question:** Four subjects - Physics, Chemistry, Mathematics and Biology - were taught in four consecutive periods of one hour each starting from 8.00 a.m. At what time was the Chemistry period scheduled ?

   Statements:

I.Mathematics period ended at 10.00 a.m., which was preceded by Biology.

   II.   Physics was scheduled in the last period.

   III.   Mathematics period was immediately followed by Chemistry.

A.   Only I

B. Either I only or II only

C. Only II

D. Only II and III

E. Only I and either II or III

Answer & Explanation

Answer: Option **E**

Explanation:

From I and II, we conclude that Mathematics period began at 9.00 a.m., Biology period began at 8.00 a.m. and Physics period began at 11 a.m. So, the Chemistry period began at 10.00 a.m.

From I and III, we conclude that Mathematics period ended and Chemistry period began at 10.00 a.m.

9.   **Question:** What is the total monthly salary of Vasu ?

Statements:

 I. Vasu's basic salary is Rs 100 more than Rajan's salary who also serves in Vasu's company.
 II. Other allowances drawn by Rajan besides his basic salary are Rs 2000 per month which is Rs 50 less than Vasu's salary.

III.   Rajan's basic salary is Rs 1550 per month,

A.   Only II

B. Only II and III

C. Only I and II

D. Only I and III

E. All I, II and III

Answer & Explanation

Answer: Option **E**

Explanation:

From III, we have: Rajan's basic salary = Rs. 1550.

From I, we have: Vasu's basic salary = Rs. (1550 + 100) = Rs. 1650.

From II, we have: Rajan's other allowances = Rs. 2000 and Vasu's other allowances = Rs. 2050.

Therefore Vasu's monthly salary = Rs. (1650 + 2050) = Rs. 3700.

10. **Question:** Who is the tallest among six boys P, T, N, D, Q and R ?

Statements:

I. P is taller than D and N but not-as tall as T.
II. R is taller than Q but not as tall as T.

 III. Q is not taller than T and R.

A. Only I and II

 B. Only II and III

 C. Only I and III

 D. All I, II and III

 E. Only I and either II or III

Answer & Explanation

Answer: Option **A**

Explanation:

From I, we have: P > D, P > N, T > P i.e. T > P > D > N or T > P > N > D ...(i)

From II, we have: R > Q, T > R i.e. T > R > Q ...(ii) From

III, we have: T > Q, R > Q ...(iii)

Clearly, from (i) and (ii), we conclude that T is taller than each one of P, N, D, R and Q. So, T is the tallest.

11.   **Question:** What does 'come' represent in a code language ?

Statements:

I.'pit na tac' means 'come and go' in that code language.
II.'ja ta da' means 'you are good' in that code language.

   III.   'na da rac' means 'you can come' in that code language.

A.   Only I and II

   B.   Only II and III

   C.   Only I and III

   D.   All I, II and III

   E.   None of these

Answer & Explanation

Answer: Option **C**

Explanation:

To find the code for 'come', we need to have two statements which have one common code word and 'come' as the common word, which is there in I and III.

12.   **Question:** How is the girl in the photograph related to Kunal?

   Statements:

I.Pointing to the photograph, Kunal said, "She is the mother of my father's only granddaughter".
II.Kunal has no siblings.

   III.   Pointing to the photograph, Kunal said, "She is the only daughter-in-law of my mother."

   A.   Any two of the three

      B. Only I and II

      C. Only II and III

      D. Either only III or only I and II

      E. None of these

Answer & Explanation

Answer: Option **D**

   Explanation:

From I, we conclude that the girl is either Kunal's or his brother's wife. But, according to II, Kunal has no siblings.

So, from both I and II, we conclude that the girl is Kunal's wife.

From III, we find that the girl is the only daughter-in-law of Kunal's mother i.e. she is Kunal's wife.

13.   **Question:** How many sons does X have ?

   Statements:

I. Q and U are brothers of T.
II. R is sister of P and U.

III.   R and T are daughters of X.

A.   Only I and II

B.   Only II and III

C.   All I, II and HI

D.   I, II and III together are not sufficient

E.   None of these

Answer & Explanation

Answer: Option **D**

Explanation:

From I, II and III, we conclude that all P, Q, R, T and U are children of X. Of these, Q and U are male while R and T are female. But the sex of P cannot be determined.