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High Level Reasoning Data Sufficiency Quiz 2 for SBI Clerk Mains, Syndicate Bank and Canara Bank PO Exams

DATA SUFFICIENCY QUIZ 2

Directions: Each of the questions below consists of a question and two or more statements numbered I, II and III given below it. You have to decide whether the data provided in the statements are sufficient to answer the question:

1. There are five tea manufacturing companies namely A, B, C, D and E.

I. The production of Company B is more than that of Company A but not more than that of company E.

II. Production of Company C is more than the production Company B but not as much as that of company D

III. Production of E is not as much as the production of company D.

Which of these statements is/are sufficient to answer the question that production of which of the following companies is the highest?

A. Statement (I) and Statement (II) together are sufficient.
B. Any two statements together are sufficient.
C. Either statement (I) and statement (II) together or statement (III) are statement
D. All the statement (I), statement (II) and statement (III) together are sufficient.
E. None is sufficient.

2. I. Kavita correctly remembers that her brother's birthday is before fifteenth April but after twelfth April.

II. Kavita's father correctly remembers that his son's birthday is before seventeenth April but after ninth April.

III. Kavita's mother correctly remembers that Kavita's brother's birthday is before sixteenth April but after thirteenth April.

Which date in April was definitely Kavita's brother's birthday?

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A. Statement (I) and Statement (III) together are sufficient.
B. Any two statements together are sufficient.
C. Either statement (I) statement and (II) together or statement (III) are statement
D. All the statement (I), statement (II) and statement (III) together are sufficient.
E. None is sufficient.

3. I. If Rohit who is currently facing North-East, turns 90° clockwise, he would face the same direction as Devesh.
II. If Vaibhav who is currently facing North-West, turns 135° anticlockwise, he would face the direction 45° clockwise to the direction Devesh is facing.

Which direction is Devesh facing?

A. First set of statements I alone is sufficient.
B. Second set of statements II alone is sufficient.
C. Either set of statements I or II alone is sufficient.
D. Both sets of statements I and II together are not sufficient
E. Both sets of statements I and II together are sufficient

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4. M, N, O, P, Q, R are sitting around a circular table facing the centre. Who sits between M and O?
I. Q is to the immediate left of O, who is an immediate neighbor of M. P is an immediate neighbor of N and R.
II. O is facing R. O is to the immediate right of P.

A. First set of statements I alone is sufficient.
B. Second set of statements II alone is sufficient.
C. Either set of statements I or II alone is sufficient.
D. Both sets of statements I and II together are not sufficient
E. Both sets of statements I and II together are sufficient

5. 5 students P, Q, R, S and T were standing according to their heights with the shortest one being at the left most corner and highest one being at the right end.
I. Q was standing between R and P. S was standing at the right end of the line.

II. T did not have the greatest height of all. P had more height than only R and Q.

III. R, Q, P all were shorter than T.

Who was the 4th highest among all five students?

A. Statement (I) and Statement (II) together are sufficient.
B. Statement (II) and Statement (III) together are sufficient.
C. Either statement (I) and statement (III) together or statement (II) is sufficient
D. All the statement (I), statement (II) and statement (III) together are sufficient.
E. None is sufficient

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Correct answers:

1	2	3	4	5
D	A	C	A	C

Explanations:

1.

Statement 1: The production of Company B is more than that of Company A but not more than that of company E.

Inference: E > B > A

Statements 2: Production of Company C is more than the production Company B but not as much as that of company D.

Inference: D > C > B

Statement III: Production of E is not as much as the production of company D.

Inference: D > E

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Taking statements I and II together, we get that there are three possibilities, as show below:

Possibility 1: E > D > C > B > A;

Possibility 2: D > C > E > B > A;

Possibility 3: D > E > C > B > A

Taking all three statements we get that there are two possibilities, as show below

Possibility 1: D > C > E > B > A

Possibility 2: D > E > C > B > A

Here we get that D's production is highest.

Hence, all three statements are sufficient to the answer the question. So the correct answer would be option D.

2.

Statement I: Kavita correctly remembers that her brother's birthday is before fifteenth April but after twelfth April.

According to Kavita, her brother's birthday → 13th or 14th April.

Statement II: Kavita's father correctly remembers that his son's birthday is before seventeenth April but after ninth April.

According to Kavita's father, his son's birthday → 10th, 11th, 12th, 13th, 14th, 15th, or 16th April.

Statement III: Kavita's mother correctly remembers that Kavita's brother's birthday is before sixteenth April but after thirteenth April.

According to Kavita's mother, Kavtia's brother's birthday → 14th or 15th April.

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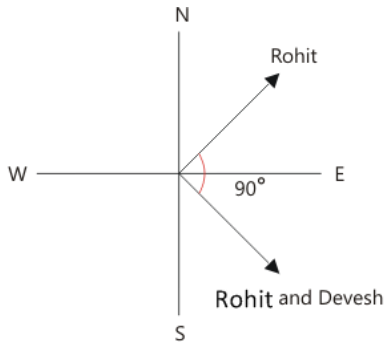
From statement I and III, we get:
Kavita's brother's birthday is on 14th April.

Hence, Only statement I and III are sufficient to answer the question. So the correct answer is option A.

3.

Statement I: If Rohit who is currently facing North-East, turns 90° clockwise, he would face the same direction as Devesh.



As per the figure,

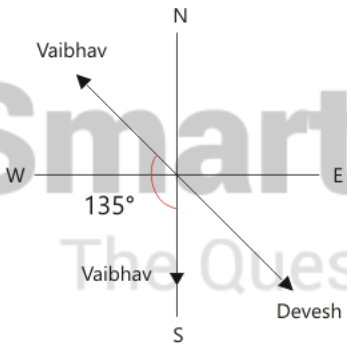
Rohit who is facing North-East, turns 90° clockwise. Thus, he will be facing South-East.

It is given that he would face the same direction as Devesh.

Hence, Devesh will also be facing South-East.

Hence, the question can be answered using Statement I alone.

Statement II: If Vaibhav who is currently facing North-West, turns 135° anticlockwise, he would face the direction 45° clockwise to the direction Devesh is facing.



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Vaibhav who is facing North-West, turns 135° anticlockwise. Thus, he will be facing South Direction.

It is given that he will face the direction 45° clockwise to the direction as Devesh.

Hence, Devesh will be facing South-East

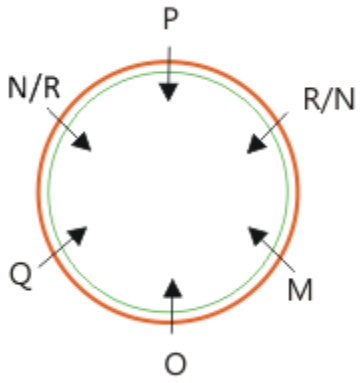
Hence, the question can be answered using Statement II alone.

Therefore, the question can be answered using either statement I alone or statement II alone.

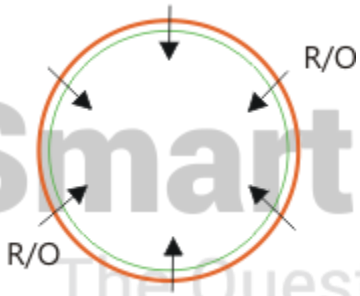
Hence, the correct answer is option C.

4.

Statement I: Q is to the immediate left of O, who is an immediate neighbour of M. P is an immediate neighbor of N and R.



Hence, statement I is sufficient to answer the question.



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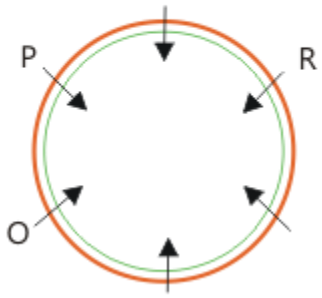
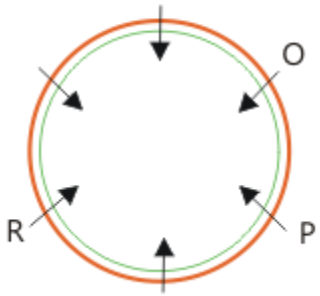
Statement II: O is facing R.

Case-I



O is to the immediate right of P.

Case-II



Hence, statement II is not sufficient to answer the question.

Hence, the correct answer is statement I is sufficient to answer the question.

5.

Statement I: I Q was standing between R and P. S was standing at the right end of the line.

Reference:

S was standing at the right end of the line.

As it is given shortest one is sitting at extreme left and highest one is sitting at extreme right end and given reference is that S was standing at the right end of the line. So, S will be standing at extreme right end.

_ < _ < _ < _ < S

Reference:

Q was standing between R and P.

With this piece of information, we can clearly see that there are two cases possible.

Case 1:

_ < R/P < Q < P/R < S

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Case 2:

R/P < Q < P/R < _ < S

Hence, Statement I is not sufficient

Statement II: T did not have the greatest height of all. P had more height than only R and Q.

References:

P had more height than only R and Q.
T did not have the greatest height of all.

R/Q < Q/R < P < T < _

Hence, only II statement is sufficient.

Statement III: R, Q, P all were shorter than T.

Reference:

R, Q, P all were shorter than T.

R/Q/P < Q/P/R < P/R/Q < T

Combining statements I and III, we get:

R/P < Q < P/R < T < S

Hence, statements I and III are sufficient.

Hence, the correct answer is option C.

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