

Study Notes On Analytical Reasoning



ANALYTICAL REASONING Analytical

Analytical reasoning is the reasoning that tests the logic level and ability to find different types of odd one out question & different types of patterns. The candidates with good analytical reasoning will find it easy to solve the problems based on analytical reasoning problems. There are many topics that come under Analytical reasoning some of them are Seating Arrangement, Syllogism, Analogy, Data Sufficiency, Blood Relations, Odd One out, Directions etc. Look at the example below to command over Analytical reasoning-

Seating Arrangement

Que- P, Q, R, S, T and U are sitting in a row of the class facing north.

i - P sits second to the left of R, who is at the extreme right end.

ii- Only two person sit between P and Q.

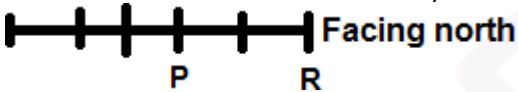
iii- Only one person sits between S and U, who is an immediate neighbor of R. What is the position of P with respect to T?

- A. Fourth to the right
- B. Third to the right
- C. Second to the left
- D. Second to the right

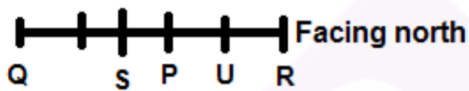
Ans. D

Solution -

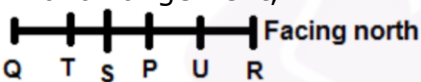
P sits second to the left of R, who is one of the extreme right ends.



Only two people sit between P and Q. Only one person sits between S and U, who is an immediate neighbor of R.



Final arrangement,



P is second to the right of T.

So, the correct answer is option D.

Syllogism

Que-In each of the following questions, two statements are given followed by two/four conclusions I, II, III and IV. You have to consider the two statements to be true even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follow from the given statements.

Question

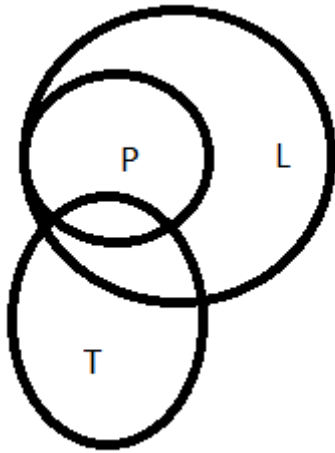
Statement:

1. All peacocks are lions.
2. Some tigers are peacocks.

Conclusions :

- I. Some lions are not tigers.
- II. All tigers are lions.
- III. Some tigers are lions.
- IV. All peacocks are tigers.

The least possible Venn-diagram is:



Conclusions :

- I. Some lions are not tigers - It is not a definite case, hence false.
 - II. All tigers are lions - It is not a definite case, hence false.
 - III. Some tigers are lions - It is a definite case, hence true.
 - IV. All peacocks are tigers - It is not a definite case, hence false.
- From the given diagram, conclusion III is the correct response.
Hence, option A is the correct answer.

Analogy

There are many type of analogy few of them are-

Que- 1. In the following question, select the related word from the given alternatives.
Soil : Pedology :: Heart : ?

- A. Astrology
- B. Cardiology
- C. Taxonomy
- D. Concology

Ans. B.

Pedology is the study of Soil. Similarly, Cardiology is the study of Heart. Hence, the correct answer is option B.

Que- 2. In the following question, select the related letters from the given alternatives.

FOM : CLJ :: ? : ?

- A. RQS : POQ
- B. RAX:OXU
- C. JKN : MNQ
- D. ACD:CEF

Ans. B

$F - 3 = C$, $O - 3 = L$ and $M - 3 = J$

Likewise, $R - 3 = \mathbf{O}$, $A - 3 = \mathbf{X}$ and $X - 3 = \mathbf{U}$

Hence, the correct option is **B**.

Data Sufficiency

Que- A question and two statements labelled (I) and (II) are given. You have to decide which statement(s) is/are sufficient to answer the question.

Question:

On which day of the week will Vimal celebrate his birthday?

Statements:

I. It is in February and 21st of February is a Tuesday.

II. It is on the last day of the month.

Select the right option from the following.

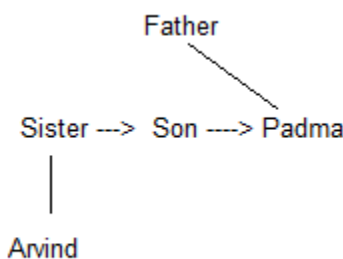
Ans - We can find any day of that year by statement I but the condition of leap year or non-leap year is not given which makes the **data insufficient**.

Blood Relations

Que- The sister of son of father of Padma is the mother of Arvind. How Padma's father is related to Arvind?

- A. Father
- B. Uncle
- C. Brother
- D. Grandfather

Ans-



Padma's father is the grandfather of Arvind. Hence, option B is the correct answer.

Odd One out

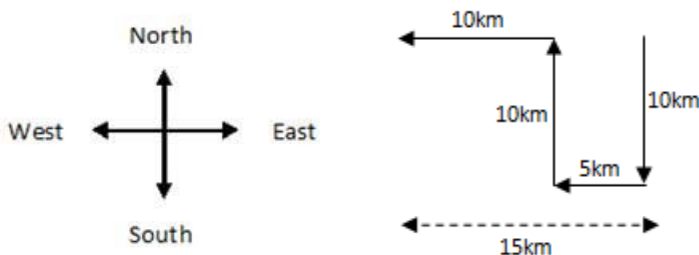
Que- Which of the following does not belong to the group?

- A. Lakshadweep
- B. Puducherry
- C. Nicobar
- D. Andaman

Ans- Except Option B, all other options don't touch the boundary with the Indian map.

Directions

One day, Ganesh left home and cycled 10 km southwards; turned right and cycled 5 km; turned right and cycled 10 km and finally turned left and cycled 10 km. How many kilometres will he have to cycle to reach his home straight?



Hence, the correct answer is 15 km.

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