

Mathematical Reasoning - Class XI

Related Questions with Solutions

Questions

Question: 01

A. Consider the statements:

- (i) Sun rises or moon sets
- (ii) All integers are positive or negative
- (iii) Two lines intersect at a point or are parallel
- (iv) The school is closed if it is a holiday or a sunday.

Which of the above statements is "inclusive or" statement ?

- A. (i) and (ii)
- B. (iv)
- C. (i) and (iii)
- D. None of these

Solutions

Solution: 01

For statement [i] Sun rises or moon sets is an "exclusive or" statement as sun rises and moon sets during day time.

ii. Since all integers cannot be both positive as well as negative. Therefore statement is "exclusive or"

iii. It is not possible for two lines to intersect and be parallel at the same time so this statement is "exclusive or" statement.

iv. It is fact that school is closed on holiday as well as on sunday. So statement "The school is closed if it is a holiday or sunday" is an "inclusive or" statement.

Correct Options

Answer:01

Correct Options: B