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B. Com Sem II

* Logic Connective - The Word "Or"

In logic, the word "or" is a disjunction, which is a logical connective that combines two or more statements to form a new statement. The "or" connective is denoted by the symbol \vee .

• Properties of "Or" Connective -

- ① **Disjunction:** The "or" connective combines two statements to form a new statement that is true if at least one of the component statements is true.
- ② **Associativity:** The "or" connective is associative, meaning that the order in which statements are combined does not affect the result.
- ③ **Commutativity:** The "or" connective is commutative, meaning that the order of the statements does not affect the result.

→ Examples of "Or" Connective -

- ① "It is either raining or the streets are wet".
- ② "The company will either increase its prices or reduce its production costs".
- ③ "The student will either receive a scholarship or take out loan."