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## B. Com Sem II

### \* The Word "And" -

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

#### • Properties of "And" Connective -

- ① Conjunction: The "and" connective combines two statements to form a new statement that is true only if both component statements are true.
- ② Associativity: The "and" connective is associative, meaning that the order in which statements are combined does not affect the result.
- ③ Commutativity: The "and" connective is commutative, meaning that the order of the statements does not affect the result.

#### • Examples of "And" Connective -

- "It is raining and the streets are wet".
- "The company is profitable and has a strong financial position".
- "The student is intelligent and works hard."