## Sentence and Proposition Sentence

- Sentence= वाक्य, Proposition= तर्कवाक्य/ प्रतिज्ञप्ति=Statement
- Sentence is the unit or part of some language.
- Sentences can be expressed in all tense (present, past or future)
- Sentence is not able to explain quantity and quality.
- A sentence may be interrogative (प्रश्नवाचक), simple or declarative (घोषड़ात्मक), command or imperative (आदेशात्मक), exclamatory (विस्मय बोधक), indicative (निर्देशात्मक), affirmative (भावात्मक), negative (निषेधात्मक), skeptical (संदेहात्मक) etc.
- Note : Only indicative sentences (संकेतात्मक वाक्य) are proposition.

- All kind of sentences are not proposition, only those sentences are called proposition while they will determine or evaluate in terms of truthfulness or falsity.
- Sentences are governed by its own grammar. (for exp- sentence of hindi language govern by hindi grammar)
- Sentences are correct or incorrect / pure or impure.
- Sentences are may be either true or false.

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## Proposition

- Proposition are regarded as the material of our reasoning and we also say that proposition and statements are regarded as same.
- Proposition is the unit of logic.
- Proposition always comes in present tense. (sentences all tenses)
- Proposition can explain quantity and quality. (sentences- cannot)
- Meaning of sentence is called proposition.
- Sometime more then one sentences can expressed only one proposition.

Example :

- ।. पानी बरस रहा है .(Hindi)
- 2. पावुष पड़तो (Sanskrit)

3. It is raining (English)

All above sentences have only one meaning or one proposition.



(In 1947 context- Pt. Nehru, In 2020 context- Mr. Narendra Modi)

- Sentences are expressed through its own language But Propositions are Language neutral.
- Proposition must be either True or False. (Truth and Falsity can be apply only to proposition)
- When a sentence both term like subject and predicate are regarded as noun, then sentence is called proposition.
- We can say that all propositions are sentences, but not all sentences are propositions.

## **Components of Proposition (Terms)**

- There are three components in every proposition, which are known as term.
- By term, we mean any word or word phrase, which is used in a proposition as a subject or predicate.
- Subject term- It refers to the assertion or denying something.
- Predicate term- It refers to the assertion or denying of what.
- Copula- It is defined as negative or affirmative. It comes between subject and predicate term.
  - E.g.- <u>Ram</u> is a good <u>person</u>.

(sub) (copula)

(predicate)

## Classification/ Types of Proposition

- There are 3 types of proposition according to the relation of terms.
- Categorical Proposition- There are no condition (Unconditional) for their assertion.
- Conditional or Hypothetical Proposition- It is also known as a type of compound proposition. This proposition is false, when the antecedent is true and the consequent is false.
- Distinctive proposition- It is also known as a type of compound proposition. It says that this proposition is true, if at least one of the component of proposition are also true.

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# **Categorical Proposition**

- It is regarded as a statement which talks about the relationship between categories/ classes.
- It shows the complete, partial or complete separate connection of one category with another category.
- The Deductive argument formulated by the categorical propositions.
- Categorical propositions are known as the fundamental elements, the building blocks of argument, in the classical account of deductive logic.

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## Four kinds of Categorical Propositions

- (A) Acc. to Quantity L Universal 2. Particular Universal Affirmative Universal Negative • (B) Acc. To Quality Particular Affirmative I.Affirmative Particular Negative 2. Negative
- According to quantity and quality we can find four categorical propositions (निरपेक्ष प्रतिज्ञप्ति)
- I. Universal Affirmative (सर्वव्यापी स्वीकारात्मक) 2. Universal Negative (सर्वव्यापी निषेधात्मक) 3. Particular Affirmative (अंशव्यापी स्वीकारात्मक) -
  - 4. Particular Negative (अंशव्यापी निषेधात्मक)

- A Proposition
- E Proposition
  - Proposition
- O Proposition

# Identification of Categorical Proposition

### I. A – Proposition

Main Identity	Other words to identify	Standard Form
• All • सभी	<ul> <li>Each, every, any, always, certainly, absolutely, in all cases, necessarily</li> <li>If these words comes along with 'Not' (e.g- not each) then it will became O proposition</li> </ul>	<ul> <li>All S is P</li> <li>All politicians(S) are liars(P)</li> <li>S P = 0</li> </ul>

### 2. E – Proposition

#### Main Identity

- No
- कोई.....नही

### Other words to identify

• Never, none, in no case, not a single

#### Standard Form

- No S is P
- No politicians(S) are liars(P)
  S P = 0

## Identification of Categorical Proposition

### 3. I – Proposition

Main Identity	Other words to identify	Standard Form
• Some • ক্লুন্ড	• A few, the few, sometimes, almost all, generally, most, many, perhaps, frequently, often, majority, minority, usually, all but one	<ul> <li>Some S is P</li> <li>Some politicians(S) are liars(P)</li> <li>S P ≠ 0</li> </ul>

### 4. O – Proposition

## Main Identity • Some.....not • कुछ......नही

#### Other words to identify

• Few, hardly any, scarcely any, seldom

#### Standard Form

- Some S is not P
- Some politicians(S) are not liars(P)
- S P ≠ 0

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