

Introduction

Inference is the mental process of arriving at a conclusion from known propositions. This chapter deals with different types of inference, mediate, immediate and its subdivisions. This chapter enables the learner to derive new conclusion from known or given facts.

Values and attitudes

- To accept truth and develop reasoning ability
- To develop positive approach towards truth.

102 Philosophy

	Unit frame	Total period 22	
Concepts/ Ideas	Process/Activity with assessment	Learning outcome	
Definition of inference	 Strategy Discussion with the help of illustrated dialogue presented in text book/PPT or dialogues prepared by teacher. Assessment Conceptual Understanding of definitions Participation in discussion, activity log 	Student will be able to Identify the meaning and definition of inference.	
Difference between mediate and immediate inference		Differentiates mediate and immediate inference	
The opposition of proposition	 Strategy Group discussion based on four worksheets about categorical proposition. Keeping the same subject and predicate each group frame other three propositions and check its truth and falsity. Assessment Participation, record of reflection and presentation in groups work and problem solving skill. 	Infer the other three forms of given proposition	
Square of opposition Contradictories Contraries Sub-contraries Sub-alternation	 Strategy Discussion with the aid of chart/slides of square of opposition. Students solve four activities related with contradictories, contraries, subcontraries and sb-alternations given in text book/prepared by teacher. Assessment Activity log, participation and problem solving skill 	Contrast opposition of propositions	

Teacher Text - XI

Concepts/ Ideas	Process/Activity with assessment	Learning outcome
Eduction/immediate inference	 Strategy Discussion based on PPT-different types of eduction. Assessment Activity log and participation 	Identify different types of eduction
• Conversion	 Strategy Problem solving Assessment Activity log, chart Participation in discussion, Problem solving skill 	Convert proposition
• Obversion	 Strategy Problem solving Assessment Activity log, chart, Participation in discussion, Problem solving skill 	Obvert proposition
Obverted converse	 Strategy Work sheet- problem solving Assessment Activity log, Participation, Problem solving skill 	Find out obverted converse
Contraposition	 Strategy Group work. Work sheet - problem solving Assessment Activity log, Participation, Problem solving skill 	Find out contraposition
• Inversion	 Strategy Group work: Work sheet - problem solving Assessment Activity log, Participation, Problem solving skill 	Find out inverse

104 Philosophy

Actvity 1

Concept: Definition of inference.

Suggested strategy: Discussion based on illustrated dialogue.

LO:

- Find out the conclusion of given proposition.
- Identify the meaning and definition of inference.

The teacher demonstrates the illustrated dialogue of Sherlock Holmes from the book 'the adventure of Sherlock Holmes' written by Aurther Conan Doyle, and ask, "what is more important -to see or to reason"?

Teacher input

The teacher can brief the context of dialogue.

- Mere seeing is not at all seeing
- One who merely sees is only a passive observer
- Seeing involves mental process
- To say, to see, is to be accompanied by reason

Alternative entry activity

Suppose a group of people, while on their morning walk by the sea shore, see some peculiar traces. Many would merely see it. But some would really reflect to identify the traces made by tortoise on their way to lay egg in the sea shore.

Teacher input

- Mere seeing is not at all seeing.
- Some people merely sees the traces.
- Those who know about the tortoise infer trace made by tortoise on their way to lay egg.

Assessment: Conceptual Understanding, reflections recorded, Activity log and skills like communication.

Items	No. of students			
	Excellent	Good	Average	Below average
Participation in discussion Understanding the concept Sharing of ideas Communication skill Prepared chart				

Teacher Text - XI

RESPOSITORY OF CE POSSIBILITIES

Sl.	Process	Portfolio	Unit
	No.	Assessment	Assessment
Assessment			
1	Discussion related to	Activity log - conclusion	
	definition of inference	to given arguments	
2	Discussion on mediate	Chart - mediate and	
	inference with immediate inference with the help of	immediate inference	
	examples		
3	Group discussion related to the opposition of proposition	Activity log - relation of A, E, I & O proposition keeping the same subject and predicate	Find out Truth, Falsity and Doubtful nature of the opposition of propositions with help of materially valid
4	Discussion with aid of chart - square of	Activity log - chart square of opposition	examples.
5	opposition Discussion based on PPT - the concept of eduction/immediate	Work sheet - solution to problems in eduction	Completion of flow chart

106 Philosophy

TE Question

Answer the following

The proposition "all cell phones are wireless devices" can be stated as

- 1. Some wireless devices are cell phones
- 2. Some cell phones are wireless devices
- 3. All non wireless devices are non cell phones
- 4. No wireless devices are non cell phones
- 5. Some non cell phones are not wireless devices
 - A. Choose the best response from *a* to *d*.
 - B. Prove its validity.
 - a) 1, 2 and 4 are true
 - b) 1, 3 and 4 are true
 - c) 3, 4 and 5 are true
 - d) 1, 3 and 5 are true

Answer:

- A. d) 1, 3 and 5 are true
- B. '1' Some wireless devices are cell phones' is the conversion of given A proposition $\{P\ I\ S\}$
 - '3'. All non wireless devides are non cell phones'.
 - is the contraposition full of the given A proposition $\{\bar{P}\ A\ \bar{S}\}$
 - '5'. Some non cell phones are not wirless devices' is the partial inverse of the given A proposition $\{\bar{S} \ O \ P \}$

Teacher Text - XI