

Revised Syllabus For the Session 2020-21

LOGIC FIRST YEAR

UNIT-1 :

Nature of Logic: Definition of logic, Structure of Argument, Sentence and proposition, truth and validity, sound and unsound arguments, Principles of Logic.

Logic and Language: Use of language, words and terms, Denotation, Connotation and Extension.

UNIT-2 :

Propositions : Classification of Propositions, Reduction of Logical form. Distribution of Terms, Sevenfold relation of Propositions, Square of Opposition of Propositions.

UNIT-3 :

Nature, Problems and Procedure of Induction: Induction and Deduction, Primary and Secondary Induction, Procedures of Induction, Problem of Induction. Induction and probable Inference: Scientific Induction, Induction by Simple enumeration,

UNIT-4 :

Formal Grounds of Induction: Law of uniformity of Nature, Law of Causation, Qualitative and Quantitative marks of causation, Cause and Condition, Different views of Causation, Plurality of causes, Conjunction of causes, Intermixture of effects.

Natural Grounds of Induction: Observation and Experiments.

UNIT-5 :

Hypothesis: What is Hypothesis ? Conditions of legitimate Hypothesis, Proofs of Hypothesis.

SECOND YEAR

UNIT-1 :

The Theory of Inference : Classification of Inference, Convention, Obverses. Categorical Syllogism: Structure, Figure, Moods, Rules of Syllogism, Determination of valid Moods.

UNIT-2 :

Special Rules of Figures, Aristotle's Dictum Direct and Indirect Reduction. Mixed Syllogism: Different forms - Hypothetical Categorical, Alternative Categorical, Disjunctive Categorical, Dilemma, Forms, Refutation, Rebuttal of Dilemma.

UNIT-3 :

Fallacy: Deductive Fallacy, Semi-Logical Fallacies, Inductive Fallacies, Fallacy of hasty Generalisation, False Analogy, Ignoratio Elenchi.

UNIT-4 : Method of Experimental Enquiry : Mill's Five Experimental Methods.

UNIT-5 : Propositional Logic: Symbolic Logic and its Characteristics, Propositional Variables, Logical constants Propositional Connectives, Truth Functions, Construction of truth tables, Testing validity by direct truth table method.

BOOK PRESCRIBED:

**Bureau's Higher Secondary (+2) Logic, Paper-I & II (English & Odia)
Published by Odisha State Bureau of Textbook Preparation & Production,
Bhubaneswar.**

N.B : No change in Question Pattern