

Logic and Methodology of science
F.Y.B.A. General

Traditional and Propositional Logic

Section I
(Traditional Logic)

- (1) Definition, nature and scope of Logic, formal and Normative nature of Logic, Proposition and Propositional form, Argument and Argument form, truth and Validity, four fold scheme of Categorical propositions, Doctrine of distribution of terms
- (2) (a) Immediate inferences: Inference by opposition of proposition, Square of opposition, Education- conversion and obversion
(b) Mediate Inference- Categorical syllogism- Its nature and general rules.
- (3) Deductive formal fallacies: Verbal and Non verbal-
(a) Verbal- Fallacy of equivocation, Amphiboly, composition, Division, Accent, Figures of speech.
(b) Non-verbal- Fallacy of accident coverce of accident, petitio principii Ignoratio elenchi and its various forms, fallacy of many questions.
- (4) Definition: Its nature and purposes, Real and nominal definitions, Kinds of definitions- ostensive, Extensive, Biverbal, per genus et differentiam- definition, stipulative and lenical definition.

Section II
(Propositional Logic)

- (5) Nature of Proposition, Distinction between sentence and Proposition, Modern classification of propositions, symbolization of propositions, propositional variables and logical constants- Negation, Conjunction, Disjunction, Implication and Logical equivalence- Its basic truth tables.
- (6) (a) Testing Validity by truth table method
(b) Statement forms: Tautology, Contradiction and Contingency
- (7) Decision Procedure: Truth table, Shorter truth table and truth trees
- (8) Nature of deductive proof, Rules of inference, replacement etc. Direct proof.

Books for Reading:-

- 1) Introduction to Logic: I. M. Copi and Cohen
- 2) Symbolic Logic: I. M. Copi
- 3) Elements of Logic: Huges and Londey
- 4) Sugam Aakaric Tarkashastra: Dr. Kavale and Dr. Gole (Marathi Text)
- 5) Tarkarekha Part I: Dr. Barlingey and Dr. Marathe (Marathi Text)
- 6) Sanketic Tarkashastra and Udgaman: Prof. D. Y. Deshpande (Marathi Text)
- 7) Tarkavidya Part I: Dr. Joshi B.R. and Prof. Kulkarni S. V. (Marathi Text)

Books for References:-

- 1) Aakaric Tarkashastra: Prof. M. P. Rege (Marathi Text)
- 2) Tarkashastra ka Parichaya (Hindi) Original Author Irving, Kofi
Transiator Prof. Sangamlal Pandey and Prof. Gorakhnath
- 3) Tarkadipika: V.V. Akolkar (Marathi Text)
- 4) Mathematical Logic : Quine
- 5) Introduction to Symbolic Logic: Basson A.H. and O'connor D.J.
- 6) A Modern Introduction to Logic: Stebbing L. S.

F.Y.B.A. - PHILOSOPHY

Ethics and Social Philosophy

Section I (Ethics)

- (1) Nature of ethics, Its scope and problems, Moral rules (code), Nature and kinds of moral judgement, Descriptive normative and meta ethics.
- (2) Hedonism: Psychological and ethical - Egoistic and Universal, Bentham and Mill's utilitarianism, Its evaluation.
- (3) Kantian Ethics: The good will, Kant's doctrine of Categorical imperatives, postulates of morality, Duty for duties sake.
- (4) Nature and Classification of virtues, Theories of Punishment- Deterrent, retributive and reformative, Nature and Justification of Capital Punishment.
- (5) Indian Ethics- Theory of Pursharthas, Law of Karma, doctrine of Svadharma

Section II (Social Philosophy)

- (6) Nature and Scope of Social Philosophy, Nature of Society- Institutions and associations. Social rules, customs, tradition, Religion, Law, Caste, Class Relation of Social Philosophy to Ethics, Sociology, Social psychology, Political science and economics
- (7) The Place of individual in society, Relation between individual and society- Organic and Mechanistic theories. Major Social Institutions- Family, Education, Work, Religion, Concept of Freedom and constraint.
- (8) (a) Social Values Justice, liberty, equality, fraternity and social welfare-Retributive distributive
(b) Social Problems/Evils- Casteism, Untouchability, Dowry, Alcoholism, Divorce, Unemployment and all other problems.
- (9) The concept of right and duty, Natural rights, Fundamental Human Rights- Right to live, freedom, property, education, contract, Need for right to privacy, Right to Work, Right to information, etc

Books for Reading:-

- 1) Ethics for today Harold Titus
- 2) Ethics Frankena William
- 3) Introduction to Ethics: Lillie W
- 4) Manual of Ethics: Mackenzie
- 5) The Principles of Ethics: Balbirasing
- 6) Moral Concepts: Oxford reading in Philosophy: Feinberg Joel (ed.)
- 7) Law of the Press: Durgada Basu (Relevant Pages Particularly for Need for right to privacy)
- 8) Social Philosophy: foundations of Philosophy Series, Prentice Hall-1973: feinberg Joel
- 9) Social Philosophy Reinberg
- 10) Principia Ethica: G. E. Moore
- 11) Theories of Ethics: P. Foot
- 12) Ethics: Nowell Smith
- 13) Outlines of Social Philosophy: J.S. Mackenzie
- 14) Aadarsh Niishastra: S. V. Barawale (Marathi Text)
- 15) Nitimimamsa: Prof. Srinivas Dixit (Marathi Text)
- 16) Nitimimamsa: Prof. P.D. Chaudhari (Marathi Text)
- 17) Paschattya Nitishastracha Itihas: M. P. Rege (Marathi Text)
- 18) Naitik va Samajik Tatvajnan: Prof. Srinivas Dixit (Marathi Text)
- 19) Nitishastrache Prashna: Prof. D. Y. Deshpande (Marathi Text)
- 20) Nitishastra Pravesh V.M. Joshi (Marathi Text)
- 21) Samajik Tatvajnanachi Mul Tatve: Prof. Hemchandra Dharmadhikari (Marathi Text)
- 22) Manavi Swatantrya Prof. K. N. Valasangkar (Marathi Text)
- 23) Nitivijnan: Shanti Joshi (Marathi Text)