

DBF Dayanand College of Arts and Science, Solapur

Department of Philosophy

Title of the course: Certificate Course in “Logical Aptitude for Competitive Exam”

Introduction: Logic is one of the most important parts of competitive examination. Competitive exams are giving more and more emphasis to this section. Logical reasoning in competitive examination has a large number of different elements to test your aptitude. You should understand that conceptual clarity is necessary for you to fetch marks in this section.

Objectives of the course:

1. To understand and explain the importance of critical thinking.
2. To demonstrate the difference between deductive and inductive reasoning.
3. To construct a logically sound and well-reasoned argument.
4. To avoid the various fallacies through the misuse of logic.

Eligibility of the course: 12th pass in arts/commerce/science or equivalent examination from recognized board.

Duration of the course: 6 months

Medium of the course: English / Marathi

Structure of the course:

Theory - 70 marks

Oral - 30 marks

Total - 100 marks

Certificate Course in 'Logical Aptitude for Competitive Exam'

June 2018-19

Syllabus

Unit 1. Nature and scope of logic (8 Lectures)

1. Means of knowledge
2. Inference
3. Deductive and Inductive Inference
4. Truth and Validity

Unit 2. Classification of propositions: (8 Lectures)

1. Proposition and Sentence
2. Contrary and Contradictory Terms
3. The four fold scheme of propositions
4. Signs of quantity

Unit 3. Immediate Inferences: (8 Lectures)

1. Opposition of proposition with Venn's diagram
2. Conversion and Obversion

Unit 4. Mediate Inferences: (8 Lectures)

1. Categorical syllogism by Venn's Diagram
2. Hypothetical and Disjunctive syllogism

Unit 5. Fallacies: (8 Lectures)

1. Verbal - Equivocation, Amphiboly, Division, Composition
2. Non-verbal - Accident, Converse Accident, Many Questions, Petitio Principii

Books for reference-

1. Introduction to logic – K.T. Basantani
2. An Introduction to Logic – I.M. Copi
3. तर्कविद्या भाग १ व २ – जोशी, कुलकर्णी, मठवाले
4. तर्कशास्त्र प्रवेश – हुल्याळकर, काळे