

No. of Printed Pages : 2

**MPYE-001**

00585

## **M.A. PHILOSOPHY**

### **Term-End Examination**

**June, 2011**

### **MPYE-001 : LOGIC**

*Time : 3 hours*

*Maximum Marks : 100*

- 
- Note :** (i) *Answer all five questions.*  
(ii) *All questions carry equal marks.*  
(iii) *Answers to question no. 1 and 2 should be in about 500 words each.*
- 

1. What is a definition ? Give an account of the various rules of proper definition. 20

**OR**

Differentiate between Deductive and Inductive Logic with illustrations. 20

2. Briefly narrate the history of symbolic logic. 20

**OR**

What is proposition ? Explain categorical proposition. 20

3. Answer *any two* of the following in about 250 words each.

(a) What is the role of moods in logic ? Explain. 10

- (b) Distinguish between Extention and Intention in logic. 10
- (c) Discuss the relevance of Digital logic in contemporary world. 10
- (d) What is inference ? Explain its types. 10
4. Answer *any four* of the following in about 150 words each.
- (a) Give a formal proof of validity for the following :  $A \supset (B \cdot C)$   
 $\sim B$   
 $\therefore \sim A$  5
- (b) What is Fallacy of Presumption ? 5
- (c) What is meant by proving invalidity ? 5
- (d) What is universal quantifiers ? 5
- (e) Explain modus Ponens ? 5
- (f) What do you mean by Rule of Replacement ? 5
5. Write short notes on *any five* of the following in about 100 words each.
- (a) Tautology 4
- (b) Venn Diagram 4
- (c) Implication 4
- (d) Division 4
- (e) Biconditional 4
- (f) Disjunction 4
- (g) Genus ef differentia 4
- (h) Syllogism 4

No. of Printed Pages : 2

MPYE-001

008908

## M.A. PHILOSOPHY

### Term-End Examination

December, 2011

### MPYE-001 : LOGIC

Time : 3 hours

Maximum Marks : 100

**Note :** (i) Answer all five questions.

(ii) All questions carry equal marks.

(iii) Answers to question no. 1 and 2 should be in about 500 words each.

- 
1. Describe logic as a branch of philosophy and discuss its relation with other branches of knowledge. 20

OR

What is a proposition ? Explain in brief various types of proposition. 20

2. Explain in detail with examples, Aristotle's square of opposition. 20

OR

What is a fallacy ? Enumerate different types of formal fallacies. 20

3. Answer *any Two* of the following in about **250** words each.
- (a) Explain categorical syllogism according to Aristotle. **10**
  - (b) Describe the laws of thought. **10**
  - (c) What is Dilemma ? Explain. **10**
  - (d) Discuss the function of Truth - Table in symbolic logic. **10**
4. Answer *any four* of the following in about **150** words.
- (a) Explain the figure of a syllogism. **5**
  - (b) Describe De Morgans Law. **5**
  - (c) Discuss the role of middle term. **5**
  - (d) What is Disjunctive Syllogism ? **5**
  - (e) Differentiate conversion and obversion **5**
  - (f) Describe Modus Tollens and modus ponens. **5**
5. Write short notes on *any five* of the following in about **100** words each :
- (a) Major Term **4**
  - (b) Enthymene **4**
  - (c) Moods in Logic **4**
  - (d) Contra position **4**
  - (e) Tautology **4**
  - (f) Axiom **4**
  - (g) Conditional proof **4**
  - (h) Simplification **4**
-

No. of Printed Pages : 2

MPYE-001

01231

## M.A. PHILOSOPHY (MAPY)

### Term-End Examination

December, 2013

### MPYE-001 : LOGIC

Time : 3 hours

Maximum Marks : 100

- Note :** (i) Answer all *five* questions.  
(ii) All questions carry *equal* marks.  
(iii) Answers to question no. 1 and 2 should be in about 500 words each.

1. Explain the classification of proposition in classical logic. 20

OR

Describe Dilemma and its kinds. Explain various methods of avoiding Dilemma. 20

2. Write a detailed essay on the application of symbolic logic. 20

OR

Define Conditional Proof (C.P.) and test the following argument form with the help of Conditional Proof method. 20

- (a)  $A \Rightarrow (B \Rightarrow C)$   
(b)  $B \Rightarrow (C \Rightarrow D)$   
 $\therefore A \Rightarrow (B \Rightarrow D)$

3. Answer *any two* of the following in about 250 words each :

- (a) Draw and explain the square of opposition. 10  
(b) Write notes on conditional and Biconditional propositions. 10

- (c) State the rules of Inference. 10
- (d) Symbolize the following using predicate logic : 10
- (i) All dogs are four legged.
  - (ii) The richest man in Delhi is a book maker
  - (iii) Rahul is a lawyer
  - (iv) All flowers are white
  - (v) Some men are not short
4. Answer *any four* of the following in about 150 words each :
- (a) Explain formal proof method. 5
  - (b) Describe categorical syllogism. 5
  - (c) Describe Modus Ponens. 5
  - (d) Discuss the role of middle term. 5
  - (e) Explain subaltern and contradiction. 5
  - (f) State the rules of quantifiers. 5
5. Write short notes on *any five* of the following in about 100 words each :
- (a) Term 4
  - (b) Valid moods 4
  - (c) Atomic proposition 4
  - (d) Indirect Proof 4
  - (e) Reduction Proof (R. P.) 4
  - (f) Contradiction 4
  - (g) Implication 4
  - (h) Quantifiers 4
-

- (b) Explain cultural relativism. 10
- (c) Explain fundamental norms and derived norms. 10
- (d) Write a critical note on Discourse Ethics. 10
4. Answer **any four** of the following in about **150 words** each.
- (a) Discuss briefly Rawl's theory of justice. 5
- (b) Explain the ethics of Bhagavat Gita. 5
- (c) What are the demerits of Virtue Ethics ? 5
- (d) Explain Natural rights and Positive rights. 5
- (e) What is Utilitarianism ? 5
- (f) Why does Kant call moral law as the Categorical Imperative ? 5
5. Write short notes on **any five** of the following in about **100 words** each.
- (a) Moral pluralism 4
- (b) Global Ethics 4
- (c) Bioethics 4
- (d) Environmental Ethics 4
- (e) Freedom of speech 4
- (f) The right to life 4
- (g) Prima Facie Duty 4
- (h) Good will. 4
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No. of Printed Pages : 2

MPYE-002

00031

## M.A. PHILOSOPHY (MAPY)

### Term-End Examination

December, 2013

### MPYE-002 : ETHICS

Time : 3 hours

Maximum Marks : 100

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- Note :** (i) Answer *all five* questions.  
(ii) *All* questions carry *equal* marks.  
(iii) Answers to question no. 1 and 2 should be in about **500 words each.**
- 

1. Explain the philosophical foundations behind the development of International Ethics. 20

**OR**

Write an essay on the nature and scope of Ethics. 20

2. Explain Media Ethics. Discuss the social responsibility of media. 20

**OR**

What are the current Ethical debates ? Explain them in detail. 20

3. Answer **any two** of the following in about **250 words** each.

- (a) Discuss the importance and challenges of Ethics. 10



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MPYE-001

**M.A. PHILOSOPHY (MAPY)**

**Term-End Examination**

**June, 2014**

**MPYE-001 : LOGIC**

*Time : 3 hours*

*Maximum Marks : 100*

- Note :** (i) *Answer all the five questions.*  
(ii) *All the questions carry equal marks.*  
(iii) *Answers to question no. 1 and 2 should be in about 500 words.*

1. State and explain the rules and fallacies of Categorical Syllogism. 20

**OR**

Explain the nature and scope of Logic. How Symbolic Logic differs from Classical Logic ? 20

2. Explain Conjunction, Negation, Disjunction, Material Implication and Biconditional with truth - tables. 20

**OR**

What is Quantification theory ? State and explain the rules of Quantification with examples. 20

3. Answer **any two** of the following in about 250 words.  
(a) Give an estimate of various classes of terms. 10  
(b) Explain distribution of terms. 10

- (c) Determine the validity or invalidity of the following arguments by using Venn diagram. 10
- (i) IAI in IV figure
- (ii) EAE in IV figure
- (d) Explain Deduction and Induction. 10
4. Answer **any four** of the following in about **150** words.
- (a) What is Disjunctive Syllogisms ? Give an example. 5
- (b) What is Dilemma ? What are its kinds ? 5
- (c) Explain Tautology, Contradictory and Contingent sentence forms. 5
- (d) What do you understand by Figure and Mood ? 5
- (e) Distinguish between conversion and obversion. 5
- (f) Construct a formal proof of validity for the following argument. 5
- $Q \Rightarrow R$   
 $\neg S \Rightarrow (T \Rightarrow U)$   
 $S \vee (Q \vee T)$   
 $\neg S \Rightarrow \therefore R \vee U$
5. Write short notes on **any five** of the following in about **100** words.
- (a) Fallacy of Equivocation 4
- (b) Logic gate 4
- (c) Commutation of terms 4
- (d) Fuzzy propositions 4
- (e) Argument forms 4
- (f) Copula 4
- (g) Multiply General Propositions 4
- (h) Truth function 4

No. of Printed Pages : 3

**MPYE-001**

**M.A. PHILOSOPHY (MAPY)**

**Term-End Examination**

**December, 2014**

**01410**

**MPYE-001 : LOGIC**

*Time : 3 hours*

*Maximum Marks : 100*

**Note :**

- (i) *Answer all **five** questions.*
- (ii) *All questions carry equal marks.*
- (iii) *Answers to questions no. **1** and **2** should be in about 500 words each.*

- 
1. (a) What is Inference ? Explain the various kinds of Immediate Inferences with examples. 20

**OR**

- (b) Describe the rules of Quantification with examples. 20

2. (a) What is Dilemma ? Explain the various kinds of Dilemma. What are the methods of avoiding Dilemma ? 20

**OR**

- (b) Define Argument. Explain its structure and nature. 20

3. Answer any **two** of the following in about 250 words each.

- (a) Explain Formal proof of validity. Give Formal proof for the following argument :

$$(H \vee I) \Rightarrow [J \wedge (K \wedge L)]$$

$$I / \therefore J \wedge K \quad 10$$

- (b) Determine the validity or invalidity of the following argument using truth-table : 10

$$p \Rightarrow q$$

$$q \Rightarrow r$$

$$\therefore p \Rightarrow r$$

- (c) Explain Distribution of terms. 10

- (d) Distinguish between Symbolic Logic and Classical Logic. What are the advantages of Symbolic Logic ? 10

4. Answer any **four** of the following in about 150 words each.

- (a) What is meant by figure of a Syllogism ? Explain four figures. 5

- (b) Distinguish between Connotation and Denotation of terms. 5

- (c) What is Multi-value Logic ? 5

- (d) Explain Venn Diagram with an example. 5

- (e) Describe the Square of Opposition. 5

- (f) Explain Conjunction, Disjunction and Implication. 5

5. Write short notes on any *five* of the following in about 100 words each :

- |                          |   |
|--------------------------|---|
| (a) Mood                 | 4 |
| (b) Fuzzy Propositions   | 4 |
| (c) Digital Logic        | 4 |
| (d) Enthymeme            | 4 |
| (e) Double-negation      | 4 |
| (f) Petitio principii    | 4 |
| (g) Reductio ad absurdum | 4 |
| (h) Sentence forms       | 4 |

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No. of Printed Pages : 3

**MPYE-001**

00341

**M.A. PHILOSOPHY (MAPY)**

**Term-End Examination**

**June, 2015**

**MPYE-001 : LOGIC**

*Time : 3 hours*

*Maximum Marks : 100*

- 
- Note :** (i) *Answer all five questions.*  
(ii) *All questions carry equal marks.*  
(iii) *Answers to questions 1 and 2 must be in about 500 words each.*
- 

1. What do you mean by Deductive and Inductive Inferences ? Explain in detail with examples. 20

**OR**

What is Fallacy ? Explain the fallacy of ambiguity with suitable examples. 20

2. Construct Formal Proof of Validity for the following Argument : 20

$$A \Rightarrow B$$

$$C \Rightarrow B$$

$$\therefore (A \vee C) \Rightarrow B$$

**OR**

Discuss 'propositions' in detail. Explain the symbolization of A, E, I and O propositions in Predicate Logic. 20

3. Answer **any two** of the following in **not** more than **250** words each :
- (a) Explain the Figure and Mood method of validating categorical syllogisms. 10
  - (b) List the first nine rules of Inference. 10
  - (c) Use the method of Indirect Proof to establish the validity of following argument. 10  

$$P \vee (Q \wedge R)$$

$$P \Rightarrow R / \therefore R$$
  - (d) Explain the rule of Existential Generalization. 10
4. Answer **any four** of the following in **not** more than **150** words each :
- (a) Distinguish between conversion and obversion. 5
  - (b) Explain Dilemma with an example. 5
  - (c) Draw the venn diagram for EIO, 3<sup>rd</sup> figure and check its validity. 5
  - (d) Use truth table to check the validity of the following argument. 5  

$$P \vee Q$$

$$P$$

$$\therefore \neg Q$$
  - (e) Describe Tautology with an example. 5
  - (f) What are Logic Gates ? Draw the symbols for basic Logic Gates. 5

5. Write short notes on **any five** of the following in **not more than 100** words each :

- |  |   |
|--|---|
| (a) Square of opposition.              | 4 |
| (b) Material Implication               | 4 |
| (c) Material and Logical equivalences  | 4 |
| (d) Disjunctive syllogism              | 4 |
| (e) Distribution of Terms              | 4 |
| (f) Conditional proof                  | 4 |
| (g) Inductive Fallacy                  | 4 |
| (h) Truth tables for AND and XOR gates | 4 |



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No. of Printed Pages : 2

**MPYE-001**

## **M.A. PHILOSOPHY (MAPY)**

**Term-End Examination**

**December, 2015**

**MPYE-001 : LOGIC**

*Time : 3 hours*

*Maximum Marks : 100*

- Note :** (i) Answer *all five* questions.  
(ii) *All* questions carry *equal* marks.  
(iii) Answer to question no. 1 and 2 must be in about 500 words each.

1. What is Categorical Syllogism ? Explain the rules governing the validity of categorical syllogisms. 20

**OR**

What is Fallacy ? Explain the fallacies of presumption. 20

2. Construct formal proof of validity for the given argument. 20

$$A \Rightarrow \neg(B \Rightarrow C)$$

$$(D \wedge B) \Rightarrow C$$

$$D \therefore \neg A$$

**OR**

What do you understand by Quantification ? Explain the quantification rules. 20

3. Answer **any two** of the following in **not** more than **250** words each :
- (a) Draw the traditional square of opposition and explain the relations of sub-alternation and contradiction. 10
  - (b) Distinguish between material equivalence and logical equivalence. 10
  - (c) Use conditional proof to construct formal proof of validity for the given argument. 10  
 $S \Rightarrow (T \wedge U)$   
 $(T \vee U) \Rightarrow \vee / \therefore S \Rightarrow \vee$
  - (d) Draw the symbols for basic logic-gates and explain their logical functions. 10
4. Answer **any four** of the following in **not** more than **150** words each :
- (a) What are propositions ? Briefly explain their nature. 5
  - (b) Explain mixed hypothetical syllogism. 5
  - (c) Draw venn diagram for AOO - II. 5
  - (d) Construct truth table for implication. 5
  - (e) Explain contraposition with an example. 5
  - (f) Draw truth tables for NOR and NAND gates. 5
5. Write short notes on **any five** of the following in **not** more than **100** words :
- (a) Disjunction 4
  - (b) Figure and mood 4
  - (c) Truth and validity 4
  - (d) Argument from ignorance 4
  - (e) Obversion 4
  - (f) Difference between rules of inference and replacement. 4
  - (g) Propositional function 4
  - (h) Fuzzy logic 4

No. of Printed Pages : 3

**MPYE-001**

01215

**M.A. PHILOSOPHY (MAPY)**

**Term-End Examination**

**June, 2016**

**MPYE-001 : LOGIC**

*Time : 3 hours*

*Maximum Marks : 100*

*Note : (i) Answer all the five questions.*

*(ii) All the questions carry equal marks.*

*(iii) Answers to question no. 1 and 2 should be in about 500 words each.*

1. State and explain the rules and fallacies of Categorical Syllogism. 20

**OR**

Describe five kinds of compound propositions with truth-tables in detail. 20

2. Explain the salient aspects of the rule of strengthened conditional proof. Construct formal proof for the following argument using the rule of strengthened proof. 20

$$(P \Rightarrow Q) \vee R$$

$$(R \Rightarrow S)$$

$$\neg S / \therefore Q \Rightarrow \neg P$$

**OR**

What is Quantification ? Give an account of the rules of quantification. 20

3. Answer **any two** of the following questions in about **250** words each :
- (a) Distinguish between deduction and induction with suitable examples. 10
  - (b) Test the validity or invalidity of the following argument by Venn Diagram method. 10  
 "Some philosophers are mathematicians;  
 Some scientists are philosophers,  
 $\therefore$  All scientists are mathematicians"
  - (c) What is fallacy ? Distinguish between formal and informal fallacies. 10
  - (d) Explain how truth is related to validity. 10
4. Answer **any four** of the following questions in about **150** words each :
- (a) Explain various classes of terms. 5
  - (b) Describe the structure of Disjunctive Syllogism. 5
  - (c) Elucidate tautology, contradictory and contingent sentence forms. 5
  - (d) Write a note on the role of truth-table in Symbolic Logic. 5
  - (e) Construct formal proof for the following argument. 5
    - (x)  $[Qx \Rightarrow Rx]$
    - $(\exists x) (Qx)$
    - $\therefore (\exists x) (Rx)$
  - (f) Test the validity or invalidity of the following argument by using truth - table. 5
    - $P \Rightarrow Q$
    - $Q \Rightarrow R$
    - $\therefore P \Rightarrow R$

5. Write a short note on **any five** of the following in about **100** words.
- |     |                           |   |
|-----|---------------------------|---|
| (a) | Proposition               | 4 |
| (b) | Quantity and Quality      | 4 |
| (c) | Argument form             | 4 |
| (d) | Argumentum Ad Populum     | 4 |
| (e) | Invalid Argument          | 4 |
| (f) | Monadic and Dyadic Models | 4 |
| (g) | Fuzzy logic               | 4 |
| (h) | Bound variable            | 4 |
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No. of Printed Pages : 2

**MPYE-001**

**M.A. PHILOSOPHY (MAPY)**

**Term-End Examination**

**December, 2016**

**MPYE-001 : LOGIC**

*Time : 3 hours*

*Maximum Marks : 100*

**Note :** (i) Answer *all the five questions.*

(ii) *All the questions carry equal marks.*

(iii) *Answers to question no. 1 and 2 should be in about 500 words each.*

1. Explain Venn Diagram method of testing validity. 20  
Test the validity or invalidity of the following argument using Venn Diagram.  
"Some reformers are fanatics, so some idealists are fanatics, since all reformers are idealists".

**OR**

Write down the nine rules of inference and ten rules of replacement. Construct a formal proof of validity for the following argument.

$$J \vee (\neg K \vee J)$$

$$K \vee (\neg J \vee K)$$

$$\therefore J \equiv K$$

2. Give a detailed account of the development of symbolic logic and its utility. 20

**OR**

Describe the structure of various syllogisms with examples. 20

3. Answer **any two** questions of the following in about **250** words each :
- (a) What is Dilemma ? What are the methods of avoiding Dilemma ? 10
  - (b) Write a note on fallacies of Presumption. 10
  - (c) Explain square of opposition. 10
  - (d) Write a note on conditional proof and rule of strengthened conditional proof. 10
4. Answer **any four** questions of the following in about **150** words each :
- (a) Give a description of Connotation and denotation. 5
  - (b) How do you relate major, minor and middle terms in a syllogism ? 5
  - (c) Write a note on traditional and symbolic logic. 5
  - (d) EIO is valid and IEO is invalid in all the figures. Explain. 5
  - (e) Explain contraposition with an example. 5
  - (f) Distinguish between truth and validity. 5
5. Write short notes on **any five** of the following in about **100** words each :
- (a) Multivalued logic 4
  - (b) Obversion 4
  - (c) Categorical Proposition 4
  - (d) Figure and Mood 4
  - (e) Tautology and Contradictory 4
  - (f) Logic gate 4
  - (g) Free variable 4
  - (h) Multiply General Proposition. 4
-

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**MPYE-001**

**M.A. PHILOSOPHY (MAPY)**

**Term-End Examination**

**June, 2017**

**MPYE-001 : LOGIC**

*Time : 3 hours*

*Maximum Marks : 100*

*Note : (i) Answer all questions.*

*(ii) All questions carry equal marks.*

*(iii) Answer to question no. 1 and 2 should be in about 500 words each.*

1. Using Venn diagram technique represent the validity of moods of I<sup>st</sup> and II<sup>nd</sup> figure. 20

**OR**

Explain in detail the concepts of Definition and Division. 20

2. Differentiate between proposition and sentence. 20  
Explain different types of propositions with examples.

**OR**

What is formal Logic ? Explain the rules of inference in detail. 20

3. Answer any two of the following in about 250 words each :
- (a) Distinguish between truth and validity. 10
- (b) Explain various applications of symbolic Logic in practical life. 10



- (c) Construct truth tables for negation, conjunction, disjunction and Implication. 10
- (d) Explain the fallacy of presumption with examples. 10
4. Answer **any four** of the following in about 150 words each :
- (a) Define Existential Generalisation (E.G) with examples. 5
- (b) What do you mean by the denotation of a term ? 5
- (c) Describe the scope of Logic. 5
- (d) Why do we use symbols in Logic ? 5
- (e) What do you understand by antilogism ? 5
- (f) Describe Inductive Logic. 5
5. Write short notes on **any five** of the following in about 100 words each :
- (a) Euler's Diagram 4
- (b) Null set 4
- (c) Constructive Dilemma 4
- (d) Argumentum and Baculum 4
- (e) Tautology and contradiction 4
- (f) Enthymeme 4
- (g) U.G. (Universal Generalization) 4
- (h) Biconditional 4
-

No. of Printed Pages : 2

**MPYE-001**

**M.A. PHILOSOPHY (MAPY)**

**Term-End Examination**

**December, 2017**

**MPYE-001 : LOGIC**

**Time : 3 hours**

**Maximum Marks : 100**

**Note :** (i) *Answer all questions.*

(ii) *All questions carry equal marks.*

(iii) *Answers to question no. 1 and 2 should be in about 500 words each.*

1. Use relevant rules of Inference and replacement to test the following arguments by Proof Construction Method. 20

(a)  $E \wedge (F \vee G)$

(b)  $(E \wedge G) \Rightarrow \neg (H \vee I)$

(c)  $\neg (\neg H \vee \neg I) \Rightarrow \neg (E \wedge F) / \therefore H \equiv I$

**OR**

Narrate the growth of Symbolic Logic and its utility. 20

2. Explain the meaning of fallacy. Distinguish between formal and informal fallacies. Explain various fallacies of relevance. 20

**OR**

Differentiate between proposition and sentence. Explain different types of propositions with examples. 20

3. Answer **any two** of the following in about **250** words each :
- (a) Is dilemma non- logical in nature ? Justify your answer. 10
  - (b) Elucidate square of opposition. 10
  - (c) Explain the rules of replacement. 10
  - (d) What is meant by the terms Denotation and Connotation. Explain. 10
4. Answer **any four** of the following in about **150** words each :
- (a) Construct the truth tables for Conjunction and Disjunction. 5
  - (b) Distinguish between C.P. and Strengthened C.P. 5
  - (c) Describe T.G. with example. 5
  - (d) How do you judge the validity of an argument ? 5
  - (e) Differentiate between reason and inference. 5
  - (f) What is contingent proposition ? Explain with example. 5
5. Write short notes on **any five** of the following in about **100** words each :
- (a) Figure and Mood. 4
  - (b) Mixed Hypothetical Syllogism. 4
  - (c) Petitio Principii. 4
  - (d) Indirect proof. 4
  - (e) OR and NOT operators. 4
  - (f) Fallacy of Composition. 4
  - (g) Structure of Antilogism. 4
  - (h) Venn Diagram. 4
-

No. of Printed Pages : 3

**MPYE-001**

00314

## **M.A. PHILOSOPHY (MAPY)**

### **Term-End Examination**

**June, 2018**

### **MPYE-001 : LOGIC**

**Time : 3 hours**

**Maximum Marks : 100**

**Note :** (i) *Answer all the five questions.*

(ii) *All questions carry equal marks.*

(iii) *Answers to question no. 1 and 2 should be in about 500 words each.*

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**1. Write an essay on the distribution of terms. 20**

**OR**

**Explain the salient features of Aristotelian logic and symbolic logic. 20**

**2. State the Rules of Inference and the Rules of Replacement. 20**

**OR**

**Explain the Rules of Quantification in detail. 20**

**3. Answer any two of the following in not more than 250 words each :**

**(a) Distinguish between truth and validity. 10**  
**Give examples to show that truth and validity are independent.**

**(b) Construct truth tables for all kinds of truth-functionally compound proposition. 10**

- (c) Represent traditional square of opposition in terms of quantifiers. Give an example for each opposition. 10
- (d) Define logic gate. Write the graphic symbols and truth-tables for the gates. 10
4. Answer any four of the following in not more than 150 words each :
- (a) Test the logical status of the following argument through Venn diagram. All scientific theories are empirical. All scientific theories are provable.  $\therefore$  Some provable are empirical. 5
- (b) Test the logical status of the following argument using reduction method and Boolean analysis. All planetary orbits are elliptic. All elliptic figures are geometric.  $\therefore$  Some geometric figures are planetary orbits. 5
- (c) Construct proof for the following arguments. 5
- $\neg B$
  - $\neg D$
  - $(A \Rightarrow B) \wedge (C \Rightarrow D)$
  - $k / \therefore \neg C \wedge (K \wedge \neg A)$
  - $A \Rightarrow B$
  - $\neg A$
  - $C \Rightarrow D$
  - $\neg C$
  - $(K \wedge \neg A)$
  - $\therefore \neg C \wedge (K \wedge \neg A)$
- (d) What do you mean by Figure and Mood ? 5
- (e) Describe disjunctive syllogism with an example. 5
- (f) Distinguish between 'Proposition' and 'Sentence' with examples. 5

5. Write short notes on **any five** of the following in about 100 words each :

- |                                   |   |
|-----------------------------------|---|
| (a) Contrary and Contradictory    | 4 |
| (b) Immediate Inference           | 4 |
| (c) Conditional and Biconditional | 4 |
| (d) Argumentum ad Populum         | 4 |
| (e) Hypothetical Proposition      | 4 |
| (f) Argumentum ad Ignorantiam     | 4 |
| (g) Meaning of I.P.               | 4 |
| (h) Multi-value logic             | 4 |



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No. of Printed Pages : 2

MPYE-001

**M.A. PHILOSOPHY (MAPY)**

**Term-End Examination**

**December, 2018**

**MPYE-001 : LOGIC**

*Time : 3 hours*

*Maximum Marks : 100*

- Note :** (i) *Answer all the five questions.*  
(ii) *All questions carry equal marks.*  
(iii) *Answers to questions no. 1 and 2 must be in about 500 words each.*

1. Use the method of antilogism and make a list of valid and invalid moods. 20

**OR**

Use formal methods to construct proof for the following arguments : 20

- (a)  $(H \Rightarrow I) \wedge (J \Rightarrow K)$   
(b)  $(I \vee K) \Rightarrow L$   
(c)  $\neg L / \therefore \neg (H \vee J)$
2. Write an essay about the growth of symbolic logic and its utility. 20

**OR**

What is Quantification ? Explain the four rules of Quantification in detail. 20

3. Answer **any two** of the following in **not more than 250 words** each :
  - (a) Distinguish between square and figure of oppositions. 10
  - (b) Illustrate the kinds of dilemma with example. 10
  - (c) Explain argumentum and hominem and ignoratio elenchi with examples. 10
  - (d) Write truth - tables for basic operators under Boolean algebra. 10
  
4. Answer **any four** of the following in **not more than 150 words** each :
  - (a) Using Zermelo - Fraenkel - Skolem theory, show the distribution of terms in 'All equilateral triangles are equiangular triangles'. 5
  - (b) Illustrate pure hypothetical syllogism and mixed hypothetical syllogism. 5
  - (c) Write the equivalent forms for implication and disjunction. 5
  - (d) Construct truth - tables to H.S. and M.T. to show that they are tautologies. 5
  - (e) Elucidate the significance of I.P. 5
  - (f) Draw a Venn Diagram for EAE-III<sup>rd</sup> Figure and check the Validity/Invalidity of this argument. 5
  
5. Write short notes on **any five** of the following in **not more than 100 words** each :
  - (a) Proposition 4
  - (b) Rebuttal of dilemma 4
  - (c) Argumentum ad Populum 4
  - (d) Complex question 4
  - (e) The strengthened Rule of C.P. 4
  - (f) Modus Ponens 4
  - (g) Multiply general proposition 4
  - (h) Fuzzy propositions 4



No. of Printed Pages : 3

**MPYE-001**

**M.A. PHILOSOPHY (MAPY)**

**Term-End Examination**

**June, 2019**

**02953**

**MPYE-001 : LOGIC**

*Time : 3 hours*

*Maximum Marks : 100*

**Note :**

- (i) *Answer all five questions.*
- (ii) *All questions carry equal marks.*
- (iii) *Answers to questions no. 1 and 2 should be in about 500 words each.*

1. Explain the rules of categorical syllogism and fallacies which arise when they are violated. 20

**OR**

Construct formal proof of validity and also use IP to test the following argument : 20

- (a)  $(L \vee M) \vee (N \wedge O)$
- (b)  $(\neg L \wedge O) \wedge \neg(\neg L \wedge M) / \therefore \neg L \wedge N$

2. Use truth-table methods to prove that the following statements are tautologous : 20

- (a)  $(A \Rightarrow B) \vee (A \Rightarrow \neg B)$
- (b)  $(A \Rightarrow B) \vee (B \Rightarrow A)$

**OR**

What are the applications of fuzzy logic ?  
Explain. 20

3. Answer any **two** of the following in about 250 words each.
- (a) Explain and distinguish between Inductive and Deductive reasoning in detail. 10
  - (b) State the Rules of Replacement and give their symbolic forms. 10
  - (c) Construct formal proof of validity to test the following argument : 10
    - (i)  $(A \vee B) \Rightarrow (C \wedge D)$
    - (ii)  $(D \vee E) \Rightarrow F / \therefore A \Rightarrow F$
  - (d) Explain the Rule of EG. 10
4. Answer any **four** of the following in about 150 words each.
- (a) Explain kinds of sorites. 5
  - (b) Use Venn diagram to show that BARBARA and DARII are valid. 5
  - (c) Draw truth-table for conjunction and bicondition. 5
  - (d) Explain petitio principii. 5
  - (e) Explain conversion and obversion with examples. 5
  - (f) How would you describe Figure and Mood ? 5

5. Write short notes on any **five** of the following in about 100 words each :

- |                                 |   |
|---------------------------------|---|
| (a) Extension and Intension     | 4 |
| (b) Axioms of Boolean Analysis  | 4 |
| (c) Fallacy of Accent           | 4 |
| (d) Rebuttal of Dilemma         | 4 |
| (e) IP Method                   | 4 |
| (f) Tautology and Contradiction | 4 |
| (g) Square of Opposition        | 4 |
| (h) 'AND' and 'NOT' Operators   | 4 |

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**MPYE-001**

**M.A. PHILOSOPHY (MAPY)**

**Term-End Examination**

**December, 2019**

02995

**MPYE-001 : LOGIC**

*Time : 3 hours*

*Maximum Marks : 100*

**Note :**

- (i) Answer all the **five** questions.
- (ii) All questions carry equal marks.
- (iii) Answers to questions no. 1 and 2 should be in about 500 words each.

- 
1. Give a set theoretical (ZFS theory) interpretation of the distribution of terms. 20

**OR**

Construct truth-tables to show that the following arguments are tautologous : 20

- (a)  $(A \vee B) \Rightarrow (C \wedge D)$   
 $A \vee B \therefore (C \wedge D)$
- (b)  $X \Rightarrow Y$   
 $Y \Rightarrow Z \therefore X \Rightarrow Z$

2. Explain the structure of C.P. and the Strengthened Rule of C.P. Give examples. 20

**OR**

Examine the function of symbolic logic in multi-value logic. 20

3. Answer any **two** of the following questions in about 250 words each.
- (a) Explain the axioms of Boolean analysis. Using these axioms, show that BARBARA is valid and BRAMANTIP is invalid. 10
  - (b) Explain how classical logic is related to symbolic logic. 10
  - (c) Explain the fallacy of presumption with examples. 10
  - (d) Explain logical relations using quantifiers (Use only symbols). 10
4. Answer any **four** of the following questions in about 150 words each.
- (a) What do you understand by square of opposition? 5
  - (b) Reduce any five valid arguments of the I<sup>st</sup> figure to the IV<sup>th</sup> figure. 5
  - (c) Construct truth-tables for Implication and Dysfunctional form. 5
  - (d) Construct formal proof of validity for the following arguments : 5
    - (i)  $(B \vee N) \Rightarrow (K \wedge L)$
    - (ii)  $\neg K$
    - (iii)  $\neg M \therefore \neg B \wedge \neg M$
  - (e) Explain the fallacies of accident. 5
  - (f) Explain contraposition with the help of two examples. 5

5. Write short notes on any **five** of the following in about 100 words each :

- |                                      |   |
|--------------------------------------|---|
| (a) Antilogism                       | 4 |
| (b) De Morgan's Law                  | 4 |
| (c) Reductio ad Absurdum (IP)        | 4 |
| (d) Advantages of Proving Invalidity | 4 |
| (e) Universal Generalization         | 4 |
| (f) Multiply General Proposition     | 4 |
| (g) Non-syllogism                    | 4 |
| (h) Logic Gate                       | 4 |

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**MPYE-001**

**M. A. PHILOSOPHY  
(MAPY)**

**Term-End Examination  
June, 2020**

**MPYE-001 : LOGIC**

*Time : 3 Hours*

*Maximum Marks : 100*

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**Note :** (i) *Answer all the five questions.*

(ii) *All questions carry equal marks.*

(iii) *Answers to Question No. 1 and 2 should be in about 500 words each.*

---

1. Explain categorical proposition and square of opposition in detail. 20

*Or*

Give example for all the kinds of compound proposition and construct truth-tables showing the equivalent forms.

**(A-2) P. T. O.**

[ 2 ]

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2. State the rules of inference and rules of replacement. 20

*Or*

What is definition ? Illustrate various types of definitions with suitable examples.

3. Answer any *two* of the following questions in about 250 words each : 10 each

- (a) Explain the fallacies and valid moods of mixed hypothetical syllogism.
- (b) Explain how symbolic logic is related to, and yet different from classical logic.
- (c) Use C. P. to prove the validity of the following arguments :

(i)  $A \Rightarrow (B \Rightarrow C)$

$$B \Rightarrow (C \Rightarrow D) / \therefore A \Rightarrow (B \Rightarrow D)$$

(ii)  $(C \vee D) \Rightarrow (E \Rightarrow F)$

$$\{E \Rightarrow (E \wedge F)\} \Rightarrow G$$

$$G \Rightarrow \{ \neg H \vee H \} \Rightarrow (C \wedge H) / \therefore C \equiv G$$

- (d) What is figure and mood ? Explain all four types of figures with suitable examples.



[ 3 ]

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4. Answer any *four* of the following questions in about 150 words each : 5 each

(a) Use Venn diagram technique to test the following :

AAA in IVth Figure.

(b) Construct formal proof of validity for the following arguments :

(i)  $\neg B$

(ii)  $\neg D$

(iii)  $(A \Rightarrow B) \wedge (C \Rightarrow D)$

(iv)  $K / \therefore \neg C \wedge (K \wedge \neg A)$

(c) What is the scope of logic ? Explain.

(d) Explain two kinds of fallacy of accident.

(e) What is De Morgan's law ? Describe.

(f) Describe conversion and obversion.

5. Write short notes on any *five* of the following in about 100 words each : 4 each

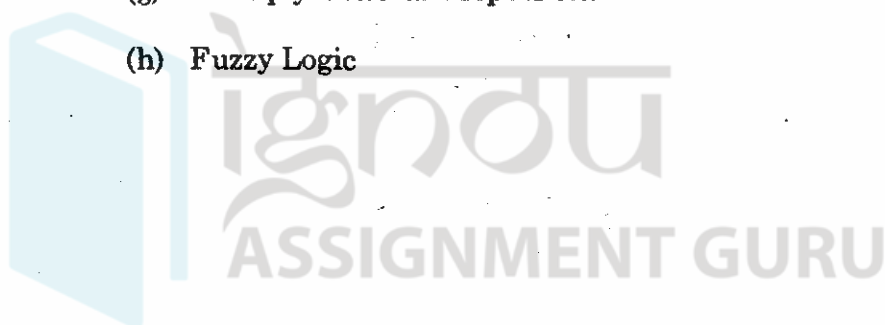
(a) Denotation and Connotation

(b) Weakened and Strengthened Moods

[ 4 ]

MPYE-001

- (c) Material implication
- (d) Argumentum and Baculum
- (e) Assumptions and advantages of proving invalidity
- (f) Existential Generalization
- (g) Multiply General Proposition
- (h) Fuzzy Logic



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**M.A. PHILOSOPHY (MAPY)**

**Term-End Examination**

**February, 2021**

**MPYE-001 : LOGIC**

*Time : 3 hours*

*Maximum Marks : 100*

**Note :**

- (i) Answer all **five** questions.
- (ii) All questions carry equal marks.
- (iii) Answers to questions no. 1 and 2 should be in about 500 words each.

1. Give examples for the following moods and prove validity using special rules of relevant figures : 20

- (a) BARBARA
- (b) FERIO
- (c) DIMARIS
- (d) DISAMIS

**OR**

What are the two kinds of inferences ? Explain them with illustrations.

20

2. Using IP method, prove that the following expressions are tautologous : 20
- (a)  $(M \Rightarrow N) \vee (M \Rightarrow \neg N)$
  - (b)  $(M \Rightarrow N) \vee (N \Rightarrow M)$
  - (c)  $(M \Rightarrow N) \vee (\neg M \Rightarrow N)$
  - (d)  $\{(M \Rightarrow N) \wedge (N \Rightarrow O)\} \Rightarrow (M \Rightarrow O)$

**OR**

Write an essay about the growth of Symbolic Logic and its utility. 20

3. Answer any **two** of the following in about 250 words each : 10
- (a) Describe Conversion and Obversion. 10
  - (b) Explain the difference between Truth and Validity. 10
  - (c) Discuss the relevance of Digital logic in the contemporary world. 10
  - (d) Prove with an example that a valid argument in a monadic model turns out to be invalid in a dyadic model. 10

4. Answer any **four** of the following in about 150 words each :
- (a) Describe square of opposition. 5
  - (b) Distinguish between implication and double implication. 5

- (c) Explain the mechanism of proving invalidity with an example. 5
- (d) Differentiate 'Proposition' from 'Sentence' with examples. 5
- (e) Describe Venn Diagram with an example. 5
- (f) What is Figure and Mood in logic ? 5

5. Write short notes on any **five** of the following in about 100 words each :

- (a) Disjunctive Syllogism 4
  - (b) Sorites 4
  - (c) Argumentum and Populum 4
  - (d) Complex Question 4
  - (e) De Morgan's Law 4
  - (f) Indirect Proof 4
  - (g) Universal Instantiation 4
  - (h) Multi-Valued Logic 4
-