

Total number of printed pages—4

63 (FY)SEM-2/MAJ2/PHLMAJ1024

2024

PHILOSOPHY

Paper : PHLMAJ1024

(Fundamentals of Logic)

Full Marks : 70

Pass Marks : 28

Time : Three hours

The figures in the margin indicate full marks for the questions.

1. Choose the correct option : 1×8=8
- (a) The norm of logic is
- (i) Validity
 - (ii) In validity
 - (iii) Truth
 - (iv) Falsity
- (b) Founder of Modern logic is
- (i) George Boole
 - (ii) Cantor

- (iii) G. Peano
- (iv) A. N. Whitehead
- (c) According to L. S. Stebbing, propositions classified into
 - (i) two types
 - (ii) three types
 - (iii) four types
 - (iv) five types
- (d) According to modality, proposition classified into
 - (i) two types
 - (ii) three types
 - (iii) four types
 - (iv) five types
- (e) Number of valid moods in categorical syllogism is
 - (i) 16
 - (ii) 17
 - (iii) 18
 - (iv) 19
- (f) In syllogism conclusion is drawn from
 - (i) One premise
 - (ii) Two premises

- (iii) More than two premises
- (iv) Less than two premises
- (g) Venn diagram technique is introduced by
 - (i) Russell
 - (ii) Carnap
 - (iii) W.V. Quine
 - (iv) John Venn
- (h) By Venn diagram we can determine the
 - (i) Validity of argument
 - (ii) Invalidity of argument
 - (iii) Validity and invalidity of arguments
 - (iv) Truth of the propositions
- 2. Answer in very short (**any six**): $2 \times 6 = 12$
 - (a) What is modern logic ?
 - (b) What do you mean by Validity ?
 - (c) What are the types of simple proposition ?
 - (d) What is class-Membership proposition ?
 - (e) What is categorical syllogism ?
 - (f) What is contraposition ?
 - (g) Define figure.

(h) Give example of 'fallacy of four terms'.

3. Answer in short (**any six**) : $5 \times 6 = 30$

- (a) Distinguish between argument and argument form.
- (b) Distinguish between deduction and induction.
- (c) Write a note on translating ordinary proposition into Standard form.
- (d) What is square of opposition ?
- (e) Write a note on proposition according to relation.
- (f) What are the rules of observation ?
- (g) Write a note on existential import.
- (h) Represent A and E proposition by Venn diagram.
- (i) What in conversion ?

4. Answer **any two** : $10 \times 2 = 20$

- (a) What is logic ? Distinguish between modern and traditional logic.
- (b) Discuss modern classification of proposition.
- (c) Explain Standard form of categorical syllogism.
- (d) What is Venn diagram ? Discuss the technique with *one* example.