

Total number of printed pages - 4

63 (FY)SEM-2/MAJ2/PHLMAJ1024

2025

PHILOSOPHY
(MAJOR)

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 : 1×6=6
- (a) Number of Fundamental Links of Thought is
- (i) 2
 - (ii) 3
 - (iii) 4
 - (iv) 5

- (b) An argument is valid when
- (i) Premises are true and conclusion is true.
 - (ii) Premises are true and conclusion in false
 - (iii) Premises are false and conclusion is true.
 - (iv) Premises are false and conclusion is false
- (c) Compound proposition in classified into
- (i) 2
 - (ii) 3
 - (iii) 4
 - (iv) 5
- (d) According to significance propositions are classified into
- (i) 2
 - (ii) 3
 - (iii) 4
 - (iv) 5
- (e) Number of valid moods in Fourth Figure is
- (i) 2
 - (ii) 4
 - (iii) 3
 - (iv) 5

- (f) The subject of promise becomes the predicate of conclusion' is the rule accepted by
- (i) Conversion
 - (ii) Obsersion
 - (iii) Contraposition
 - (iv) Simple conversion.

2. Answer in very short : **(any five)** $2 \times 5 = 10$

- (a) What is standard form ?
- (b) What is inference ?
- (c) What is general proposition ?
- (d) What is synthetic proposition ?
- (e) What is mood ?
- (f) Define immediate inference.
- (g) Define Fallacy of four terms.

3. Answer in short : **(any six)**

$5 \times 6 = 30$

- (a) Write a note on nature of logic.
- (b) What is argument? Is there any difference between argument and argument form ?
- (c) What is class-membership proposition? Give details.

- (d) What is proposition, according to quality and quantity?
- (e) What is conversion? Mention the rules of conversion.
- (f) What is square of opposition? Show with diagram.
- (g) Represent 'A' proposition via Venn diagram.
- (h) What is existential import?
- (i) Distinguish between traditional logic and modern logic.

4. Answer **any two**.

12×2=24

- (a) E – No King in poor
 A – All kings are men
 $\therefore E$ – No men is poor

Prove the validity of one above argument with venn-diagram.

- (b) What is figure? Explain the figures of syllogism with diagram.
- (c) What is compound proposition? Give details of the types of compound proposition.
- (d) What is contraposition? Discuss the process of contraposition with example.