

FYUG Odd Semester Exam., 2024

PHILOSOPHY
(1st Semester)

Course No. : PHISEC-101T

(Logic—I)

Full Marks : 50

Pass Marks : 20

Time : 3 hours

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

UNIT—I

1. Answer any three from the following : $1 \times 3 = 3$

- (a) What is logic?
- (b) Is logic a positive science?
- (c) Define argument form.
- (d) Give one example of argument.

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(Turn Over)

(2)

2. Answer any one from the following : 2

- (a) Write two differences between truth and validity.
- (b) Write two utilities of studying logic.

3. Answer any one from the following : 5

- (a) Explain briefly the nature and scope of logic.
- (b) Write a short note on 'Truth and Validity'.

UNIT—II

4. Answer any three from the following : $1 \times 3 = 3$

- (a) What kind of opposition exists between E and I proposition?
- (b) What is copula?
- (c) Give one example of subject-predicate proposition.
- (d) What is the symbolic form of particular negative proposition?

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(Continued)

(3)

5. Answer any one from the following : 2

- (a) What is class membership proposition?
Give suitable example. $1+1=2$
- (b) How do modern logicians define a proposition?

6. Answer any one from the following : 5

- (a) Define compound proposition. What are its different kinds? Explain each of them with example. $1+1+3=5$
- (b) Explain briefly Aristotelian square of opposition with diagram.

UNIT—III

7. Answer any three from the following : $1 \times 3 = 3$

- (a) Is contraposition a deductive inference?
- (b) State any one rule of contraposition.

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- (c) "Quality is changed in obversion." Is it true?
- (d) Obvert the statement—"No man is perfect".
8. Answer any *one* from the following : 2
- (a) What is immediate inference?
- (b) What are simple conversion and conversion by limitation?
9. Answer any *one* from the following : 5
- (a) What is conversion? Mention any three rules of conversion. 2+3=5
- (b) Reduce the following sentence into logical form and then convert, obvert and contrapose : 1+1+1+2=5
- "Every man is liable to error."

UNIT—IV

10. Answer any *three* from the following : 1×3=3
- (a) Name one valid mood of first figure of syllogism.

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(5)

- (b) What is the position of the middle term in the fourth figure of syllogism?
- (c) What is mood?
- (d) 'BARBARA' is a mood of which figure?
11. Answer any *one* from the following : 2
- (a) What is mediate inference?
- (b) Write two differences between categorical and hypothetical syllogism.
12. Answer any *one* from the following : 5
- (a) What is categorical syllogism? State any three characteristics of categorical syllogism. 2+3=5
- (b) Explain the four figures of syllogism with their diagrams.

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(6)

UNIT—V

13. Answer any three from the following : 1×3=3

- (a) What is set?
- (b) "Any categorical syllogism that contains more than three terms is invalid." Name the fallacy.
- (c) What is middle term?
- (d) Give an example of the fallacy of undistributed middle term.

14. Answer any one from the following : 2

- (a) What is fallacy of illicit minor term?
- (b) Define Venn diagram.

15. Answer any one from the following : 5

- (a) State the rules of syllogism as advocated by I. M. Copi and the fallacy committed by the violation of these rules. 5

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(7)

(b) Use Venn diagram techniques to test the validity or invalidity of the following argument :

"No doctors are extremists

Some extremists are violent persons

∴ Some violent persons are not doctors."

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