

2024/FYUG/ODD/SEM/  
PHISEC-101T/004

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 : 1×3=3

(a) What is logic?

(b) Is logic a positive science?

(c) Define argument form.

(d) Give one example of argument.

J25/441

( 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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( Turn Over )



(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.

(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.



( 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

J25/441

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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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J25—2500/441

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