# 2023/FYUG/ODD/SEM/ PHISEC-101T/004

# FYUG Odd Semester Exam., 2023 (Held in 2024)

# PHILOSOPHY

## (1st Semester)

Course No. : PHISEC-101T

## (Logic-I)

Full Marks : 50 Pass Marks : 20

Time : 2 hours

The figures in the margin indicate full marks for the questions

## SECTION-A

Answer fifteen questions, selecting any three from each Unit : 1×15=15

#### UNIT-I

- 1. Is logic a science or an art or both?
- 2. "Logic is the study of the methods and principles used to distinguish correct (good) from incorrect (bad) reasoning." Who says this?

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## (2)

- 3. What kind of science logic is?
- 4. "An argument is either true or false." Is the statement true?

#### UNIT-II

- 5. What kind of opposition that exists between A and O proposition?
- 6. What is proposition?
- "Universal propositions have existential import." Is it true?
- 8. Give an example of a general proposition.

#### UNIT-III

- 9. How many propositions are there in an immediate inference?
- 10. Is contraposition a deductive inference?
- 11. Can O proposition be converted?
- 12. "Quality is changed in conversion." Is it true?

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# (3)

#### UNIT---IV

- 13. Name one valid mood of second figure.
- 14. What is the position of middle term in the 1st figure?
- 15. State any one rule of syllogism.
- 16. State the number of rules of syllogism as advocated by I. M. Copi.

#### UNIT-V

- 17. Give an example of a set.
- 18. Give symbolic representation of the following statement :

"A is the subset of B."

- **19.** What is the name of the symbol ' $\in$ '?
- 20. If the set A = human beings, set B = rational animals, is A equal to B?

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#### SECTION-B

Answer five questions, selecting one from each Unit :

 $2 \times 5 = 10$ 

#### UNIT-I

- 21. What is the law of contradiction?
- 22. What is argument form?

#### UNIT-II

- 23. What is existential import?
- 24. State any two points of difference between traditional square of opposition and Boolean square of opposition.

#### UNIT-III

- 25. Mention any two points of difference between Conversion and Obversion.
- 26. What is simple conversion and conversion by limitation?

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#### UNIT-IV

27. What is figure of syllogism?

28. What is existential fallacy?

## UNIT-V

29. What is null set (empty set)?

30. What is set?

## SECTION-C

Answer five questions, selecting one from each Unit : 5×5=25

#### UNIT-I

31. Explain briefly the nature of logic.

32. Write a short note on 'truth and validity'.

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# (6)

## UNIT—II

- **33.** Define with examples different kinds of simple propositions.
- 34. Explain briefly traditional square of opposition.

### UNIT-III

- 35. What is obversion? Mention any three rules of obversion.2+3=5
- **36.** Reduce the following sentence into logical form and then convert, obvert and contrapose :

1+1+1+2=5

"Mothers are always kindhearted."

#### UNIT-IV

- 37. What is categorical syllogism? State any three characteristics of categorical syllogism. 2+3=5
- **38.** Use Venn diagram technique to test the validity or invalidity of the following argument :

Some reformers are fanatics.

All reformers are idealists.

: Some idealists are fanatics.

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## UNIT-V

- 39. Explain with example : "Set membership"
- 40. Explain with examples union of sets and intersection of set.

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