TDC (CBCS) Odd Semester Exam., 2020
held in March, 2021

PHILOSOPHY

(5th Semester)

Course No. : PHPGE–501T

Full Marks : 70
Pass Marks : 28

Time : 3 hours

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

SECTION—A

Answer the following as directed (any *twenty*) :   1×20=20

1. What is the ideal of logic?

2. "Logic is a positive science." Is it true?

3. "Truth is the property of argument." Is this statement true?

4. A proposition is either true or false/valid or invalid.

(Choose the correct option)

(Turn Over)

(2)

5. If P, then Q

   P

   ∴ Q — is an argument/argument form.

   (Choose the correct option)

6. What is the truth value of a proposition?

7. "An argument in which the premises are true and the conclusion is false is invalid one."

   (Write True or False)

8. How many premises are there in an argument?

9. How many kinds of propositions are there according to modern classification of propositions?

10. What are the two types of propositions according to the principle of quality?

11. What are the two types of propositions according to the principle of quantity?

12. How many parts are there in a proposition according to modern logic?

13. "Two contradictory propositions opposed both in quality and in quantity." Is it true?

(3)

14. How many premises are there in immediate inference?

15. Name the kinds of opposition exist between I and O proposition.

16. "Contrary opposition is the relation between two universal propositions." Is it true?

17. There are four/five ways in which propositions may be opposed.

   (Choose the correct option)

18. What is the position of the middle term in second figure of a syllogism?

19. What is the position of the middle term in the fourth figure of a syllogism?

20. By obversion, E proposition yields which proposition?

21. 'Obvert, convert, obvert'—is the rule of which form of immediate inference?

22. How many premises are there in syllogism?

23. How many valid moods are there in Third figure?

24. How many propositions are there in a syllogism?

25. What is the name of fallacy when a syllogism consists of more than three terms?

26. If P is true Q is false, what is the truth value of $P \supset Q$?

27. What term is distributed in a particular negative proposition?

28. Write the symbols for implication and equivalence.

29. FERIO is a valid mood of which figure?

30. What is the name of the subject of the conclusion of a syllogism?

31. When does a statement form become tautology?

32. "Classical logic is related to symbolic logic as embryo to adult organism." Who said this?

33. State the name of the valid form $P \supset Q, P, / \therefore Q$.

34. How many rules are there in the Rules of Inference?

35. Formal truth of validity is also called the Method of Deduction/Method of Induction.
(Choose the correct option)

36. $P / \therefore P \vee Q$ is called conjunction/addition.
(Choose the correct option)

37. 'When both the conjuncts are true' a conjunction becomes true/false.
(Choose the correct option)

38. Write the symbol for negation.

39. T stands for what?

40. How many terms are there in a syllogism?

SECTION—B

Answer any *five* of the following questions : 2×5=10

41. What is symbolic logic?

42. What is a 'sound argument'?

43. What do you mean by contrary opposition?

44. Mention two differences between traditional and modern logic.

45. What is figure of a syllogism?

46. What is obversion?

47. What is truth table?

48. Mention two characteristics of a syllogism.

49. State the rule of absorption.

50. State the rule of Modus Tollens.

SECTION—C

Answer *any* **five** questions

51. Explain the concept of 'truth' and 'validity'.

52. What is argument? Distinguish between argument and argument form. 3+5

53. Explain modern classification of propositions.

54. Explain the traditional square of opposition with a suitable diagram.

55. What is conversion? State the rules of conversion with example. 3+5

56. What is a categorical syllogism? State Copi's Six Rules and Fallacies of Categorical Syllogism. 3+5

(Continued

57. Test the validity or invalidity of the following syllogistic forms by means of Venn's diagram technique : 4+4=8

(i) $IAI-4$

(ii) $OAO-2$

58. Test the validity or invalidity of the following by truth table method : 4+4=8

(i) $P \cdot \sim P$
$\therefore P$

(ii) $(A \supset \sim P) \supset Q$
$\sim Q$
$\therefore A \supset \sim P$

59. Construct the formal proof of validity : 4+4=8

(i) 1. $D \supset C$
    2. $(D \cdot C) \supset B$
    3. $(D \cdot B) \supset A / \therefore D \supset A$

(ii) 1. $(U \supset T) \cdot (S \supset R)$
    2. $Q \supset P$
    3. $(U \vee Q) \cdot (S \vee O) / \therefore T \vee P$

(Turn Over)

60. Prove the invalidity of the following by shorter truth table method : 4+

(i) $R \supset (Q \lor P)$
$(Q \cdot P) \supset O$
$\therefore R \supset O$

(ii) $R \supset \sim Q$
$\sim (\sim P \cdot O)$
$\sim (\sim R \cdot \sim O)$
$\therefore \sim Q \supset P$

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