2020/TDC(CBCS)/ODD/SEM/ PHPSEC-301T(H/P)/059

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

PHILOSOPHY

(3rd Semester)

Course No. : PHPSEC-301T

(Logical Reasoning)

Full Marks : 50 Pass Marks : 20

Time : 3 hours

The figures in the margin indicate full marks for the questions

Honours students will answer Group—A and Pass students will answer Group—B

GROUP-A

(For Honours Course)

SECTION-A

a

Answer any fifteen of the following questions :

1×15=15

of

propositions?

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- 2. "Logicians are not interested in the actual process of reasoning, but rather with the correctness of the complete reasoning process." Do you consider it to be true?
- 3. How many parts does an argument have?
- 4. On what does the validity of an argument depend?
- 5. How many circles one needs to draw to test a categorical syllogism through Venn diagram?
 - 5. An inductive argument is concerned with both formal and material truth. Is it true?
- 7. What is syllogism?

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- 8. What is the name of the subject of the conclusion of a syllogism?
- 9. Which term determines the figure of a syllogism?
- 10. Name the fallacy which is involved when both the premises of a categorical syllogism are negative.
- 11. Give an example of fallacy of undistributed
- 12. What is the fallacy of illicit major?

10-21/58

(Continued)

- 13. What is Paksata?
- 14. What is Parāmarśa?
- 15. What is Sādhya?
- 16. What is Linga?
- 17. Give an example of Seşavat Anumāna.
- 18. Mention the kinds of Vyāpti.
- 19. What is truth value?
- 20. "Every logical connective connects only two propositions." Is it true?

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- 21. Is (-p) a truth function?
- 22. Under what condition a disjunctive function becomes false?
- 23. What is logical constant?
- 24. What is conjunct?
- 25. What is symbol?

10-21/58

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26. What is direct proof?

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- 27. What is indirect proof?
- 28. What is conditional proof?
- 29. How many rules of inference are there?
- 30. Mention one utility of using symbols in logic.

SECTION-B

Answer any five questions

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- 31. What is an argument?
- 32. What is analytical reasoning?
- 33. What are the different kinds of a syllogism?
- 34. What is existential fallacy?
- 35. What is Vyāpti?
- 36. What is Hetväbhāsa?
- 37. What do you mean by truth function?

10-21/58

- **38.** Construct one truth table for conjunctive function.
- 39. Why the procedure of formal proof of validity is called a formal proof?
- 40. Symbolize the following :

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1×2=2

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- (a) If it rains, then I shall not go for shopping.
- (b) You will pass the exam if and only if you work hard.

Answer any five questions

SECTION-C

- 41. Explain with examples, deductive reasoning and inductive reasoning.
- 42. Test the validity or invalidity of the following argument by means of Venn diagram

Some reformers are philosophers, so, some idealists are philosophers, since, all reformers are idealists.

- 43. State the rules of categorical syllogism.
- 44. Explain in brief the fallacies associated with the rules of syllogism.

10-21/58

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- 46. Use truth tables to determine the validity or invalidity of the following argument forms : 2½×2=5
 - (a) p·q ∴p (b) p⊃q

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- $\therefore \neg q \supset \neg p$
- 47. Define Anumāna. Distinguish between Svārthānumāna and Parārthānumāna. 1+4=5
- 48. Explain in brief the different kinds of Hetvābhāsas.
- 49. What is formal proof of validity? What are the strategies for constructing formal proof of validity?
- 50. Construct formal proof of validity for the following arguments : 21/2×2=5

(a) $A \lor (B \supset A)$ $\sim A \cdot C / \therefore \sim B$ (b) $(H \supset I) \cdot (J \supset K)$ $K \lor H$ $\sim K / \therefore I$

10-21/58

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GROUP-B

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(For General / Pass Course)

SECTION-A

Answer any fifteen of the following questions : 1×15=15

- 1. How many parts does an argument have?
- 2. Does a true conclusion guarantee validity?

3. How many types of logical reasoning are there?

- 4. What is sound argument?
- 5. "Deductive reasoning is mainly a reasoning from the general to the particular." Is it true?
- 6. How many kinds of oppositions are there in traditional square of opposition?
- 7. What is analytical reasoning?
- 8. What is the difference between analytical reasoning and logical reasoning?

9. Define fallacy.

10-21/58

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