

TDC Odd Semester Exam., 2020  
held in July, 2021

PHILOSOPHY

( Pass )

( 5th Semester )

Course No. : PHIP-501

( Logic—I )

Full Marks : 50

Pass Marks : 17

Time : 2 hours

The figures in the margin indicate full marks  
for the questions

Answer **five** questions, taking **one** from each Unit

UNIT—I

1. (a) What is proposition? What are its different parts? Explain the nature of copula. 2+1+4=7
- (b) Reduce the following sentences into logical propositions : 1×3=3
  - (i) The virtuous alone are happy.
  - (ii) Any one can solve it.
  - (iii) Students are not mostly hard-working.

2. (a) Distinguish between argument and argument form. 8
- (b) Define truth. 2

UNIT—II

3. (a) What is compound proposition? 2
- (b) Explain different forms of compound propositions with examples. 8
4. Classify propositions according to quality and quantity. Explain and illustrate each of them. 2+8=10

UNIT—III

5. (a) What is immediate inference? Is immediate inference an inference at all? 2+2=4
- (b) Convert and obvert the following : 2×3=6
  - (i) A few men are honest.
  - (ii) All that glitters is not gold.
  - (iii) Every mother is kindhearted.

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6. (a) What is obversion? What are the rules of obversion? 2+4=6
- (b) Contrapose the following : 2×2=4
- (i) All successful boys are intelligent.
- (ii) Some educated men are not superstitious.

UNIT—IV

7. (a) What is syllogism? What are the characteristics of a syllogism? 3+5=8
- (b) How many valid moods are there in the Third figure? 1
- (c) Name one valid mood of First figure. 1
8. Test the following categorical syllogisms and name the fallacies involved : 5+5=10
- (a) All educated men are intelligent, as he is intelligent, he must be educated.
- (b) Ram must be happy, for he is virtuous and the virtuous alone are happy.

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UNIT—V

9. (a) What is opposition of propositions? What are its different forms? 2+4=6
- (b) Distinguish between the Aristotelian and the traditional square of opposition. 4
10. Reduce the following into standard form of categorical syllogisms and determine their figures and moods, and test their validity by means of Venn diagram technique : 5+5=10
- (a) Some neurotics are not parasites, but all criminals are parasites; it follows that some neurotics are not criminals.
- (b) Since all quadrupeds are animals and no birds are quadrupeds, it may be concluded that birds are not animals.

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