

**2018/SEM/ODD/PHIP-501/136**

**TDC Odd Semester Exam., 2018**

**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 a proposition? Distinguish between a sentence and a proposition. 2+4=6
- (b) Reduce the following sentences into logical propositions : 1×4=4
  - (i) Most of the good citizens are patriots
  - (ii) None but the brave deserves the fair
  - (iii) Learned are honoured everywhere
  - (iv) Few men are above temptation

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2. Explain the relation between truth and validity with illustrations. 10

UNIT—II

3. Classify propositions according to quality and quantity. Explain and illustrate each of them. 2+8=10

4. (a) What is a general proposition? What are its forms? Explain them with illustrations. 2+1+5=8
- (b) How does general proposition differ from class-membership proposition? 2

UNIT—III

5. (a) What is conversion? State the rules of conversion. 2+4=6
- (b) Convert and Obvert the following : 2×2=4
- (i) All Indians are religious.
- (ii) No squares are circles.

6. (a) Write a note on Contraposition. 4

(b) Contrapose the following :  $2 \times 3 = 6$

(i) No cricketers are footballers.

(ii) Some citizens are not voters.

(iii) All fishes are mammals.

UNIT—IV

7. What is a standard form categorical syllogism?  
State Copi's six rules of categorical syllogism.  
Name the valid moods of Second figure.  $2+6+2=10$

8. Test the following categorical syllogisms and  
name the fallacies involved, if any :  $5+5=10$

(a) John can pass the examination because he is  
intelligent and only the intelligent boys can  
pass the examination.

(b) No men are beasts and no beasts are birds.  
So no men are birds.

UNIT—V

9. What do you mean by opposition of propositions?  
Explain briefly the Boolean square of opposition.  
 $3+7=10$

10. Reduce the following into standard form of categorical syllogism and determine their figures and moods, and test their validity by means of Venn diagram technique :  $5+5=10$

(a) All winged creatures are bipeds for all the birds have wings and they are bipeds.

(b) No writers are singers and some artists are writers and so some artists are singers.

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