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

2. Explain the relation between truth and with illustrations.

UNIT—II

3. Classify propositions according to qual quantity. Explain and illustrate each of

4. (a) What is a general proposition? What forms? Explain them with illustrations

   (b) How does general proposition differ class-membership proposition?

UNIT—III

5. (a) What is conversion? State the rules conversion.
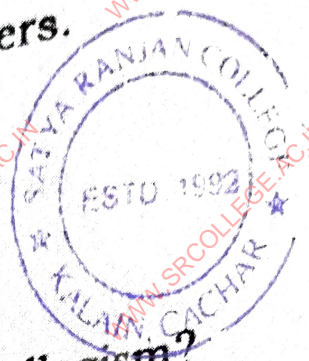
   (b) Convert and Obvert the following:

   (i) All Indians are religious.

   (ii) No squares are circles.

(a) Write a note on Contraposition. $2 \times 3 = 6$

(b) Contrapose the following :

  (i) No cricketers are footballers.

  (ii) Some citizens are not voters.

  (iii) All fishes are mammals.

UNIT—IV

7. What is a standard from 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

What do you mean by opposition of propositions? plain briefly the Boolean square of opposition.

$3+7 = 10$

10. Reduce the following into standard categorical syllogism and determine their and moods, and test their validity by mea Venn diagram technique :

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

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

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