



UNIVERSITY OF THE PUNJAB

Fifth Semester – 2019

Examination: B.S. 4 Years Program

Roll No. in Fig.

Roll No. in Words.

PAPER: Formal Logic

Course Code: IT-303 NA Part-I (Compulsory)

MAX. TIME: 15 Min.

MAX. MARKS: 10

Signature of Supdt.:

Attempt this Paper on this Question Sheet only.

Please encircle the correct option. Division of marks is given in front of each question.

This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the right answer, cutting and overwriting is not allowed. (1x10=10)

1. Which of the following sentence can be a proposition?
a. Shut the door. b. What is your name? c. Water boils at 212 degree Fahrenheit.
2. Truth value is a attribute of:
a. Statement b. Argument c. Sentence
3. Cogency is an attribute of :
a. Deduction b. Syllogism c. Induction
4. Some crows are not non black is a obverse of :
a. Some crows are black. b. Some crows are not black. c. All crows are black.
5. The symbol \vee means:
a. Conjunction b. Disjunction c. Conditional
6. If A is true then I is:
a. True b. False c. Undetermined
7. What is the contraposition of "Some S is not P"?
a. Some non P is not non S. b. All non P is non S. c. No S is non P.
8. Which of the Categorical Proposition is this? Some politicians are doctors
a. A b. E c. I
9. The place of Middle Term in a syllogism is:
a. Major Premise b. Both Premise c. Minor Premise
10. If I is true then E is :
a. True b. False c. Undetermined



UNIVERSITY OF THE PUNJAB

Fifth Semester – 2019

Examination: B.S. 4 Years Program

Roll No.

PAPER: Formal Logic

Course Code: IT-303 NA Part – II

MAX. TIME: 2 Hrs. 45 Min.

MAX. MARKS: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Questions with short answers.

(10 x 2 = 20)

- What is the difference between statement and sentence?
- Draw traditional square of Opposition.
- Construct a Venn diagram for I Proposition
- Define major and minor term.
- Define Inference.
- Define Quality and Quantity of a categorical Proposition.
- Define Soundness of the argument.
- Enumerate rule of distribution.
- Why question command and suggestion is not proposition.
- Draw Boolean Square of Opposition.

Q3: Use Venn diagram to determine the validity of the following syllogism. And also apply fallacy if commit.

10 marks

- EIO-4
- AAA-2
- OA0-1
- AEE-3
- OOO-4

Q4: Symbolize the following:

10 marks

- If John doesn't pass then he will lose his scholarship and drop out of school.
- If it rains and you don't open your umbrella then you will get wet.
- If your car won't start or you don't wake up on time then you will miss your interview and you will not get the new job.
- If you elect Mary then Mary will make sure that the federal budget will be balanced, partisan wrangling in Washington will cease, and there will be no cuts in social security benefits.
- If the cake gets hot the icing melts and if the icing melts the cake cannot be used at the wedding reception.

Q5: Define logic. Differentiate deductive and inductive argument with at least three examples.

10 marks