UNIVERSITY OF THE PUNJAB

First Semester – 2019

Examination: B.S. 4 Years Program

Roll No. ....

PAPER: Logic and Critical Thinking
Course Code: SOC-102-N   Part – II

MAX. TIME: 2 Hrs. 45 Min.
MAX. MARKS: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2.(a) Answer the following short questions.   **(5x2=10)**

1. What is the difference between Universal and Particular Propositions?
2. Define "middle term and Major term" with example.
3. What are "Coversion" and "Obversion"?
4. What is "Distribution"?
5. What is Quantity?

Q.2.(b) Translate the following into symbolic logic.
Use first letter of the underlined words.   **(5x2=10)**

a) Iran will raise the price of oil and Jordan will buy five hundred more warplanes.

b) Neither Panama nor Indonesia will join the meeting.

c) Saima will cook food if Yusra will help.

d) Either John is a political or he is not a politician.

e) If Iran raises the price of oil and Jordan requests more U.S aid, then Egypt will call for a meeting.

Q.3.   Answer the following Long questions.   **(3x10=30)**

1. Discuss the uses of language with examples. 10

2. Use Venn Diagram to test the validity of the following.   (5+5=10)
   a) AEA-4   b) EAE-2

3. Check the validity of the following arguments with the help of truth tables.   (5+5=10)

a)	b)
$(A \cdot B) \lor (B \lor \sim A)$ $\sim A \lor (B \quad A) \therefore (A \lor B)$	$(M \lor P) \supset (P \lor M)$ $(M \lor \sim P) \therefore \sim P \lor \sim M$

UNIVERSITY OF THE PUNJAB

First Semester – 2019
Examination: B.S. 4 Years Program

Roll No. in Fig. ....

Roll No. in Words. ....

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PAPER: Logic and Critical Thinking
Course Code: SOC-102-N   Part–I (Compulsory)

MAX. TIME: 15 Min.
MAX. MARKS: 10

....

Signature of Supdt.:

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

1) An inductive argument is either _____

    i) Valid or Invalid   ii) True or False   iii) Correct or incorrect   iv) More or Less Probable

2) _____ cannot both be false at the same time but can be true simultaneously.

    i) Contraries   ii) Sub-Contraries   iii) Contradictories   iv) Contingents

3) In _____argument, reasoning always starts from general premises to particular conclusion.

    i) Deductive   ii) Inductive   iii) Correct   iv) Invalid

4) Major term never appears in the _____ of any syllogistic argument.

    i) Mood   ii) Minor Premise   iii) Figure   iv) Conclusion

5) The converse of A proposition is _____.

    i) E   ii) O   iii) I   iv) not- A

6) _____ is a valid standard form of categorical syllogism.

    i) AAA-4   ii) EAE-1   iii) OOO-1   iv) III-1

7) If O proposition is given as false, then E is:

    i) True   ii) False   iii) Undetermined   iv) Probable

8) " Happy Birthday to you" is _____ use of language.

    i) Informative   ii) Expressive   iii) Directive   iv) Ceremonial

9) Inference from a single premise is called:

    i) Mediate   ii) Indirect   iii) Intermediate   iv) Immediate

10) _____ is a universal negative proposition.

    i) A   ii) I   iii) E   iv) O