

Assignment for TEE June 2025 and TEE December 2025

BPYC-133 Logic

(TUTOR MARKED ASSIGNMENT)

Course code: BPYC-133

Marks: 100

Note:

1. Give Answer of all five questions.
2. All five questions carry equal marks.
3. Answer to question no. 1 and 2 should be in about 400 words each.
4. Some questions have more than one section, kindly read such questions carefully and attempt all the sections.

1. Write a note on existential import. Which problem of traditional logic is addressed by existential import? 20

Or

a) Write a note on “various types of the terms”. 10

b) What is a symbol? Discuss the various kinds of symbols? 10

2. Write a note on the traditional square of opposition? Also discuss relations in traditional square of opposition. 20

Or

a) What is a truth table? Test the validity of the following argument with the help of the indirect truth table method. 5+5=10

$(A \vee B) \cdot (C \supset D)$

$(D \vee E) \cdot F$

$\therefore A \cdot F$

b) State contrary, contradictory, sub contrary, subaltern and superaltern of the following propositions. 2*5=10

i) All triangles are polygon.

ii) Some Indian citizens are not Indian voter.

3. Answer any two of the following questions in about 200 words each. 2*10=20
- a) What is Pararthanuman? Elaborate with the help of adequate example. 10
 - b) Write a note on deductive reasoning. What are its limitations? 10
 - c) What is syllogism? Give examples. 10
 - d) What is formal fallacy? Explain with the help of examples. 10
4. Answer any **four** of the following questions in about **150** words each. 4*5=20
- a) Write a note on Proposition. Elaborate the modern categorization of propositions. 5
 - b) Test the validity of the following arguments with the help of the venn diagram method. 5*2.5=5
 - i) AAA-4
 - ii) EIA-2
 - c) Write a note on Fallacies in Indian Logic. 10
 - d) What is the difference between Mediate and Immediate inference? 5
 - e) Translate the following statements to the standard form propositions. 1*5=5
 - i) He does not like tea.
 - ii) Every Indian citizen is a voter.
 - iii) All cats meow.
 - iv) If it is a Tiger, then it is an animal.
 - v) Unless he gives an application, his request will not be entertained.
 - f) Symbolize the following propositions. 1*5=5
 - i) Some books are literary books and some books are non-literary books.
 - ii) Either he is trustworthy or she is honest.
 - iii) All girls are virtuous and all boys are virtuous.
 - iv) Neither you nor me are trustworthy.
 - v) All cities are polluted and overpopulated.

5. Write a short note on any five of the following in about 100 words each.	5*4=20
a) Anumana	4
b) Boolean square of opposition	4
c) Truth Functions	4
d) The Straw Man Fallacy	4
e) Hetvabhas	4
f) Refutation of a Dilemma	4
g) Fallacy of Amphiboly	4
h) Quality (Categorical Proposition)	4