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 deductive reasoning. What are its' limitations?   20

Or

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

b) State whether the subject and predicate terms in the following propositions are distributed or undistributed.   5*2=10
   i) All dogs are mammals
   ii) All hill stations are hot places.
   iii) Some trees are tall
   iv) Some humans are not mortal.
   v) No hill stations are hot place.

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

Or

a) Write a note on existential import.   10

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 Fallacies in Indian Logic.   10
   c) 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 v B) • (C⊃D)
   (D v E)• F

.˙. A • F

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

4. Answer any **four** of the following questions in about **150 words** each.   4*5=20

a) Write a note on the relation between truth and validity in Inductive Logic.   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 short note on the Truth Functions.   5

d) Write a short note on Indian Logic.   5

e) Translate the following statements to the standard form propositions.   1*5=5

  i) He does not hate tomato soup.
  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 studious and all boys are studious.
  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) Fallacy of Amphiboly
b) Modus Ponens
c) Connotation of a term   4
d) The Straw Man Fallacy
e) *Hetvabhas*   4
f) Refutation of a Dilemma   4
g) Anumana
h) Quality (Categorical Proposition)