2014

PHILOSOPHY
( General )
( Logic )

Full Marks: 60

Time: 2½ hours

The figures in the margin indicate full marks for the questions

Answer either in English or in Assamese

1. Answer/Fill up the blank/Choose the correct one of the following:

(a) What is the etymological meaning of the word 'logic'?

(b) What is normative science?

(c) Logic is concerned with formal truth / material truth / Both.

(d) Give an example of an argument.
(2)

(e) Is there a fixed number of premises in a syllogism?

(f) There are — forms of general proposition.

(g) On what depends the validity of an argument?

2. Answer the following questions very briefly (any four):

(a) What is ‘validity’?

(b) Can a valid argument have true premises and a false conclusion?

(c) Name two logicians who have contributed significantly to the development of symbolic logic.

(d) What is deductive method?

(e) Define an implicative proposition.

3. Give short answers of the following questions (any three):

(a) Distinguish between truth and validity.

(b) Distinguish between positive science and normative science. What is the ideal of logic as a normative science?

(c) What is a logical constant? Illustrate various logical constants with suitable examples.

(d) Construct the truth table for a conjunctive and an implicative function.

(e) Explain tautologous, contradictory and contingent statements.
4. Explain the chief characteristics of symbolic logic.

프리카야부 턱바치지나브 프라한 베니치타스무히 바খ야 락바.

Or / 니바

Explain the brief history of the development of symbolic logic.

프리카야부 턱바치지나 바감부 찐부 이티하스 바খ야 락바.

5. What is a truth function? Explain the basic truth functions with the help of truth tables.

সত্য-ফলন কাক বোলে? সত্য-তালিকাব সহায়ত মৌলিক সত্য-
ফলংসমূহ ব্যাখ্যা করা।

Or / 니바

Construct truth table and determine the validity and invalidity of the following arguments:

সত্য-তালিকা গঠন কবি তলত দিয়া যুক্তিসমূহ বৈধতা বা
অবৈধতা নির্ণয় করা:

(a) \( p \lor q \)
\(~ p \)
\therefore \sim q

(b) \( p \lor q \)
\(~ p \)
\therefore q


বচন সংজ্ঞা দিয়া। বচন আধুনিক শ্রেণী-বিভাজন বর্ণনা করা।

Or / 니바

What is a simple proposition? What are its different kinds? Explain each of them with suitable examples.

সবল বচন কাক বোলে? ইয়াব বিভিন্ন প্রকারসমূহ কি কি?
উপযুক্ত উদাহরণ সেতে প্রতোকটা ব্যাখ্যা করা।