

**U.G. 4th Semester Examination 2022**

**PHILOSOPHY (Honours)**

**Paper Code : (401-PHIH) DC 8**

**Western Logic - I**

Full Marks : 32

Time : Two Hours

*The figures in the margin indicate full marks.  
Candidates are required to give their answers  
in their own words as far as practicable.*

**Section - I**

Answer any *one* of the following :

16×1=16

1. (a) What is opposition of proposition? Distinguish between modern square of opposition and Aristotle's square of opposition of proposition. 2+6
- (b) If "some merchants are not pirates"—is true, what may be inferred about the truth or falsehood of the following proposition? 2×4
  - (i) Some non-pirates are not non-merchants.
  - (ii) All merchants are non-pirates.
  - (iii) Some pirates are not merchants.
  - (iv) Some non-merchants are non-pirates.
2. (a) What is categorical syllogism? What is mood and figure of categorical syllogism? Briefly explain the importance of major, minor and middle term in categorical syllogism. 2+5+5
- (b) Test the validity of the following syllogistic argument by applying general rules of syllogism : Every book is liable to error and every book is a human production. Therefore, all human productions are liable to error. 4
3. (a) Do you think that all universal propositions have existential import? Discuss. 6

(b) Test the validity of the following argument forms by means of Venn diagram : 5+5

(i) OAO - 2

(ii) EOE - 4

**Section - II**

4. Answer any *one* of the following : 8×1=8

(a) What is Conversion? Explain with example the rules of Conversion. What is Conversion by limitation? 2+4+2

(b) What is an enthymeme? What are the different orders of enthymeme in syllogistic arguments? 4+4

**Section - III**

5. Answer any *four* of the following : 2×4=8

(a) What is existential import?

(b) What do you mean by distribution of terms?

(c) When a deductive argument is valid?

(d) Write the Boolean interpretation of the proposition—‘Some politicians are predictable person’.

(e) What is complementary class?

(f) Write the name of valid moods in second figure.

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