BPY - 002

BACHELORS DEGREE PROGRAMME

01991

Term-End Examination

June, 2010

ELECTIVE COURSE : PHILOSOPHY

BPY-002 : LOGIC : CLASSICAL AND SYMBOLIC

Time : 3 hours   *Maximum Marks : 100*

Note :   (i)   *Answer all five questions.*

(ii)   *All questions carry equal marks.*

(iii)   *Answer to question no. 1 and 2 should be in about 300 words each.*

1.   Describe the history of logic and proposition.   **20**

OR

Describe the inductive method of attaining knowledge.   **20**

2.   Explain the meaning and scope of logic.   **20**

OR

Distinguish between formal fallacies and informal fallacies.   **20**

3. Answer *any two* of the following in about 200 words each :

(a) Explain briefly the rules of definition. **10**

(b) Distinguish between contradictories, contracies and sub - contracies. **10**

(c) What is formal proof of validity ? Discuss. **10**

(d) Describe in brief tautologies and contradictions. **10**

4. Answer *any four* of the following in about 150 words each :

(a) Distinguish between propositions and sentences. **5**

(b) What is division by dichotomy ? **5**

(c) Briefly describe the kinds of generalizations. **5**

(d) Explain stroke function. **5**

(e) Describe the kinds of Dilemma. **5**

(f) Give justification for the following : **5**

(i) $(A \wedge B - [A - (D \wedge E)]$

(ii) $(A \wedge B - [\wedge - C/D \vee E]$

(iii) $A \wedge B$

(iv) $A - (D \wedge E)$

(v) A

(vi) $D \wedge E$

(vii) D

(viii) $D \vee E$

(g) What is Modus Tollens ? Prove its validity 5
through truth table.

5. Write short notes on *any five* of the following in
about **100** words each :

(a) What are truth values in validation ? 4

(b) Construct formal proof of validity : 4

$-A/...$ $A-B$:

$(A \vee B) \rightarrow -C$

$C \vee D$

$A/\square D$

(c) Distinguish between constructive dilemma 4
and destructive dilemma.

(d) What are constants and variables ? 4

(e) What is problem of induction ? 4

(f) Distinguish between analytic and synthetic 4
propositions.

(g) Define Syllogism. 4

(h) What is a fallacy ? 4

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