# Four Year Undergraduate Programme - 2024 Philosophy (Major) Semester – III Paper- MJPL06 Western Logic

Time: 3 hours Full Marks: 80

Questions are of value as indicated in the margin.

Answer any four questions from the following

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1.		Define propositions and arguments. Explain the relation between truth and validity with the help of examples.	4+16=20
2.	a.	State the form of Categorical Proposition, express as equalities or inequalities and symbolize by means of a Venn Diagram.  i. No birds with keel bones are flightless.  ii. Some patients with dementia also have bipolar disorder.	4+4=8
	b.	If the above statements are true, the truth value of which other statements can be immediately inferred and how? Explain with the help of the traditional square of opposition.	8
	c.	State the main point of difference between Aristotle's and Boole's interpretation of Categorical Propositions.	4
3.	a.	<ul> <li>Symbolize (if needed) and find the truth value of the following statements <ol> <li>i. If either Stockholm is the capital of Norway or Paris is not the capital of France, then it is not the case that Stockholm is not the capital of Norway and London is not the capital of England.</li> <li>ii. [(A ⊃ Y) • B] ≡ Z (A and B are True; Y and Z are False)</li> </ol> </li> </ul>	5+3=8
	<b>b.</b>	Construct the truth table of material implication. Show the connection between conditional and biconditional with the help of truth table.	3+5=8
	c.	Use truth-table to show whether the following statement form is tautologous/ contradictory/ contingent: i. $p = [p \supset (p \cdot q)]$	4

validity: If Japan continues to increase the export of i. automobiles, then either Korea or Laos will suffer economic decline. Korea will not suffer economic decline. Therefore, if Japan continues to increase the export of automobiles, then Laos will suffer economic decline. (J, K, L) If either Ravi or Asha wins, then both Jini and Nisha lose. Ravi wins. Therefore, if Nisha loses then Jini loses. 4+4=8 Construct a formal proof of validity: JV (-J.K) JOL ∴(L·J) = J  $(R \vee S) \supset (T \cdot U)$ -R > (V > -V) may To :-V Show the validity or invalidity through complete 8+8=16 truth-table method:  $P \supset (Q \cdot R)$  $(Q \vee R) \supset \sim P$ :.~P POO  $Q \supset R$  $\sim R$ :.P • ~Q Derive the Rule of Material Implication with the b. help of a truth table. 6. Show the validity or invalidity through shorter truth-table method:  $(O \cdot P) \supset (Q \supset R)$  $\sim (P \supset \sim S)$  $\sim (0 \supset 0)$  $\therefore Q \supset R$ Distinguish between 6+6=12 i. Argument and Argument form. ii. Rules of inference and Rules of replacement

Symbolize and construct a formal proof of

6+6=12

4.

a.

### Four Year Undergraduate Examination 2024 Programme – Philosophy (Major)

## Semester - III Paper –MJPL05 Indian Metaphysics

Time: 3 Hours Full Marks: 80

Questions are of value as indicated in the margin. Answer any four questions from the following.

1.	Why do the Sāmkhya philosophers accept the satkāryavāda as a theory	
	of causality? Examine the arguments given by Sāmkhya in favour of satkāryavāda?	5+15=20
2.	Explain in detail the Buddhist theory of non-self (anātmavāda).	20
3.	Why is <i>prakriti</i> considered as the material cause of the world according to Sāṁkhya philosophy? In this connection, explain in detail the evolution of the world after Sāṁkhya philosophy.	5+15=20
4.	Give an account of the vedāntic theory of causality. How does vedāntic theory of causality differ from that of Sārnkhya? Explain.	15+5=20
5.	Explain in detail the concept of self after Nyāya philosophy.	20
6.	Give a detailed account of the paramānuvāda after Vaiśeṣika philosophy.	20

### Four Year Undergraduate Examination - 2024

#### Programme - Philosophy (Major) Semester - III

Paper: SECPL 03 (Induction: A Method of Acquiring Knowledge)

Time: 3 Hours Full Marks: 60

	Questions are of equal value or as indicated in the margin	Marks	
	Answer any 4 questions		
1.	What is an ampliative induction? Explain its importance for natural science with		
	examples.	15	
2.	Illustrate the difference between summative and intuitive induction.	15	
3.	Explain why Hume argued that it is impossible to justify any inferences		
	concerning causal connections.	15	
4.	Discuss the basic ideas of analytic justification and inductive justification of		
	induction.	15	
5.	Give an account of Mill's method of concomitant variation. How does it differ		
	mainly from the other experimental methods of Mill?	12+3	
6.	Discuss Mill's method of agreement and its limitations.	12+3	
	그 그리는 점점 내내 그 때문에 가면 하셨다고 있다. 하지 않아 얼마나 그렇게 되었다. 얼마나 없는데 살아 다른데	12+3	