2009

PHILOSOPHY

PAPER-VII

Full Marks: 100

Time: 4 hours

Answer any six questions taking three from each Group

The figures in the right-hand margin indicate marks

Candidates are required to give their answers in their own words as far as practicable

Write the answer to questions of each Group in separate books

(Advaita Vedānta)

GROUP-A

1. Discuss, after the Bhāmatī, the opponent's position that Brahman is not an object of enquiry. 16

- 2. Explain, after the Bhāmatī, Sankara's definition of adhyāsa, smṛtirupaḥ paratra purvadṛṣtāvabhāsa. 16
- 3. (a) What is akhyāti?
 - (b) Explain how does Vacaspati refute the theory of akhyāti. 6+10
- 4. tat punaḥ brahma prasiddham aprasiddham va syat ? yadi prasiddham na jijñāsitavyam. atha aprasiddham naiva śakyam jijñasitum iti.

Explain the above purvapaksa and the reaction of Śankara to it.

- 5. Is the Brahmasūtra, janmādyasya yatah an inference to prove the existence of Brahman? Discuss. 16
- 6. Answer, in short, any four of the following: 4x4
 - (i) What is Vedānta?
 - (ii) What is sādhanacatustaya?

- (iii) What are the Vedāngas?
- (iv) What is anirvacanīyakhyāti?
- (v) What is tatastha lakṣaṇa?
- (vi) Distinguish between arthādhyāsa and jāānādhyāsa.

[General Impression: 2 Marks]

GROUP-B

- (a) Discuss pramālakṣaṇa, according to Vedānta
 -Paribhāṣā?
 - (b) What is meant by dhārābāhika jāāna?
 - (c) How does *pramālakṣaṇa* given in Vedānta
 -Paribhāṣā avoid the charge of *avyāpti* as
 regards to *dhārāvāhikajīnāna*? Explain. 8 + 4 + 4
- (a) Explain three types of caitanya after Vedānta
 -Paribhāṣā.

- (b) What is the criterion of perceptuality of objects (viṣayagatapratyakṣatva). Discuss after the Vedānta-Paribhāṣā. Explain briefly. 4+12
- 3. (a) What is the utility of contact (sannikarşa) after the Vedānta-Paribhāṣā.
 - (b) Explain savikalpaka and nirvikalpaka pratyakṣa, according to Dharmarāja. 4+12
- 4. (a) Explain the character of perception both as regards objects (jñeyagata pratyakṣa) and as regards cognition (jñaptigata pratyakṣa), according to Vedānta-Paribhāṣā.
 - (b) Explain, in this connection, the nature of error. 8+8
- 5. (a) Explain essential characteristics (svarupa lakṣaṇa) and secondary characteristics (tatastha lakṣaṇa) with suitable examples.
 - (b) Explicate the essential characteristics and the secondary characteristics of Brahman, according to the Vedānta-Paribhāṣā. 4 + 12

- 6. (a) Answer any two from the following: 4×2
 - (i) What is tanmātra?
 - (ii) What is pancikarana?
 - (iii) What is lingaśarīra?
 - (iv) What is antahkarana?
 - (b) Answer in short any four from the following: 2×4
 - (i) What is antaḥkaranavṛtti?
 - (ii) What is Hiranyagarbha?
 - (iii) What is vyāvahārikatattvāvedakatva?
 - (iv) What are the four gross bodies?
 - (v) Why is mokṣa called parama puruṣārtha?
 - (vi) What is Mahāvākya?

[General Impression: 2 Marks]

(Advanced Logic)

GROUP-A

1. Show that the rule of substitution of Equivalents holds in PM.

Or

Derive the following in the PM from its base (any two):

(i)
$$p \supset p$$

(ii)
$$p \supset (p \lor q)$$

(iii)
$$(p \lor q) \supset ((r \lor q) \lor p)$$

(iv)
$$p \lor \sim \sim p$$
.

2. (a) Explain the derived rule used for the derivation of the line (3) in the following proof:

$$T_1: (p\supset (q\supset r))\supset (q\supset (p\supset r)) (1)$$

$$T_2: (q \supset r) \supset ((p \supset q) \supset (p \supset r))$$
 (2)

$$T_2 \times T_1 : (p \supset q) \supset ((q \supset r) \supset (p \supset r))$$
 (3).

(b) Given:

(i)
$$p \lor \sim p$$

$$(ii)$$
 $(q \supset r) \supset ((q \lor p) \supset (r \lor p))$

(iii)
$$((p \lor q) \lor r) \supset (p \lor (q \lor r)).$$

Derive the following in PM.

A.
$$(p \supset (q \supset (p \cdot q)))$$

B.
$$(p \supset q) \supset ((p \lor q) \supset q)$$

C.
$$(\sim p \supset q) \supset (p \lor q)$$
 4+(4+4+4)

- 3. (a) Set out clearly the three different senses of consistency.
 - (b) Show that PM is consistent in all these senses. 6+10
- (a) Explain possibility and impossibility as the basic modal notions.
 - (b) Prove the following theorems in modal system-T:

(i)
$$L(p \equiv q) \equiv (p = q)$$

(ii)
$$(Lp \lor Lq) \supset L(p \lor q)$$

(iii)
$$Lp \supset (Mq \supset M(p \cdot q))$$
. $4 + (4 + 4 + 4)$

- 5. (a) Prove the following theorems in the modal system S_4 .
 - (i) $MLP \equiv MLMLP$
 - (ii) LP \equiv LLP.
 - (b) Answer the following:
 - (i) In what sense the system S_4 is stronger than the system-T?
 - (ii) In what sense every necessary proposition is necessarily necessary? (4+4)+(4+4)
- 6. Write short notes on the following: 4+4+4+4
 - (i) Modal operators are not truth functional
 - (ii) The Rule of L-M interchange
 - (iii) Paradox of strict implication
 - (iv) Transformation rules.

[General Impression: 2 Marks]

GROUP-B

- 1. (a) What is an ordered couple?
 - (b) Let <4, 5, 6> and <7, 8, 9> be two arbitrary ordered triples. Prove that

$$<4$$
, 5, $6>=<7$, 8, $9>$ if and only if $4=7$, $5=8$ and $6=9$.

- (c) Will there be any difference if we repeat the element 2 both in {1, 2} and <1, 2>? Give reasons for your answer.
- (d) Let, R be a relation where

$$R = \{ \langle 1, 1 \rangle, \langle 2, 2 \rangle, \langle 1, 2 \rangle, \\ \langle 2, 3 \rangle, \langle 1, 3 \rangle \}$$

Find the domain and counter domain of R. State what properties of reflexivity, symmetry and transitivity does the relation have in its own field? 2+4+3+7

- 2. (a) What is reflexive relation? Give one example of reflexive relation.
 - (b) Let, $Q = \{a, 3, 4\}$. Give an example of a binary relation which is reflexive, transitive but not symmetric in Q.

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(Turn Over)

- (c) Distinguish the following relations according to the properties they do or do not have. (e.g. reflexive, symmetric, transitive etc.)
 - (i) The relation of loving and the relation of \geq .
 - (ii) The relation of being a sister and the relation of being a mother.
- (d) Is the relation of having the same height an equivalence relation in the set of all persons? Give reasons for your answer.
- (e) Let, $A = \{\langle Tom, Jim \rangle, \langle Jim, Ann \rangle\}$.

What is the Universal relation over the field of A? $(1+1) + 3 + (2\frac{1}{2} + 2\frac{1}{2}) + 3 + 3$

- 3. (a) What is relative product?
 - (b) Let, $M = \{\langle 2, 1 \rangle, \langle 4, 3 \rangle, \langle 6, 7 \rangle\}$ $N = \{\langle 1, 4 \rangle, \langle 3, 5 \rangle, \langle 7, 8 \rangle\}$

Find: $M \cap (M \mid N)$.

(c) If xFy means x is the father of y. xMy means x is the mother of y. xBy means x is the brother of y. xSy means x is the sister of y.

Then find: (answer any two)

(i)
$$x[(B \cup S)|(M \cup F)]y$$
.

(ii)
$$x[(M \sim F) | (M \cup F)]y$$
.

(iii)
$$x[(S \sim B)|F]y$$
.

(d) Which of the following relations are functions? Give reasons for your answer.

(i)
$$\{\langle a, 2 \rangle, \langle a, 3 \rangle, \langle b, 3 \rangle\}$$

(ii) The relation of being a grandparent.

(iii)
$$\{<1,1>, <2,4>, <2,5>\}$$
.
 $2+2+(3\times2)+(2\times3)$

- 4. (a) What is well formed formula of a formal language and how it is determined?
 - (b) When can we say that two formal languages are identical?
 - (c) What is a formal system?

- (d) What is proof theory?
- (e) What is meant by semantic?
- (f) (i) Is it a syntactic or a semantic property of a formula of the system z that it is an immediate consequence of another formula in z?
 - (ii) Is it a syntactic or a semantic property of a formula that it denotes a number?

$$(1+2)+2+3+2+2+(2+2)$$

- 5. (a) Distinguish between the following pairs (any two)
 - (i) Model theory and Meta theory
 - (ii) Use and Mention
 - (iii) Decidable and Undecidable sets.
 - (b) Define any two of the following:
 - (i) Finite set
 - (ii) Same cardinality
 - (iii) Denumerable set.

- (c) Explain with examples the notion of an effective method. (3+3)+(2+2)+6
- 6. (a) What is an analytically valid inference? Discuss after A.N. Prior.
 - (b) Is the inference 'Mary is beautiful and Ann is attractive therefore, Ann is attractive' an analytically valid one? Give reasons for your answer.
 - (c) Does A.N. Prior accept conjunctive statements as compound statements?
 - (d) What are the meanings of the conjunctions 'and' and 'tonk'? 3+3+2+(4+4)

[General Impression: 2 Marks]