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Your Roll No.

6186

B.Sc. (H) Computer Science/II Sem. J

Paper—205 (iii) LOGIC

(For Admissions of 2001 and onwards)

Time 3 Hours

Maximum Marks : 75

(Write your Roll No on the top immediately on receipt of this question paper)

Attempt All questions.

Parts of a question should be attempted together

- 1 (a) What do you understand by Distribution of Terms ?
Explain 4
- (b) Give the converse and obverse of the following - 6
- (i) All human beings strive for perfection
- (ii) No musicians are athletes
- (iii) Some movie goers are critics
2. (a) How is the existential import a big jolt to traditional square of opposition ? Explain 8
- (b) State the purpose of definition. Explain the stipulative definition. 8

P.T.O.

3. (a) "Logic is the art of reasoning." Explain 4
- (b) Illustrate the laws of thought. 4
- (c) Reduce the following into the standard logical form : 3
- (i) Poets are soft hearted.
- (ii) Philosophers are never foolish.
- (iii) Most of the seers are liberated souls.
4. (a) If the following proposition is true, what could be said about the truth and falsity of its opposites ?
Given 'some cats are wild'. 3
- (b) Write the different forms of the informal fallacy—
Argument ad hominem. 6
- (c) Explain the fallacy of undistributed middle. 3
5. (a) Test the validity/invalidity of the following moods of syllogism :
- (i) AEO fig IV; 4
- (ii) AEE fig. III. 4
- (b) Write a note on justification of induction. 8

6. Arrange the following syllogism into standard logical form, name its figure and test the validity/invalidity with the ANTILOGISM method

No musicians are astronauts and all musicians are baseball fans, Thus no astronauts are baseball fans 6

- 7 (a) Explain the relation between connotation and denotation of terms

(b) Differentiate between Truth and Validity. 4

