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Roll No

MCADD-605

M.C.A. (Integrated), VI Semester

Examination, November 2019

Artificial Intelligence

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) Write the various applications of Artificial Intelligence. 7
b) Write short note on LISP programming language. How it is useful to solve AI problems. 7
2. a) Explain list manipulation functions with examples. 7
b) Explain the following uninformed search strategies with examples. 7
 - i) Breadth First Search
 - ii) Depth First Search
3. a) Explain Exhaustive Searches? Discuss Space Search. 7
b) Describe briefly the various problem characteristics. 7
4. a) Discuss A* and AO* algorithm and the various observations about algorithm briefly. 7
b) Describe the Issues in knowledge representation. 7

5. a) Describe how will you represent facts in propositional and predicate logic with an example. 7
- b) Give algorithm for propositional resolution and Unification algorithm. 7
6. a) How would the minimax procedure have to be modified to be used by a program playing a three of four-person game rather than two-person one? 7
- b) What are common pitfalls in planning an expert system? 7
7. a) Explain parsing techniques in natural language processing. 7
- b) Draw the schematic diagram of an expert system. Explain all the relevant components. 7
8. a) Explain Bayesian Belief Networks. 7
- b) What is Probability Theory? Explain briefly. 7
