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M.C.A. IV Semester

Examination, June 2017

Artificial Intelligence and Applications

Time: Three Hours

Maximum Marks: 70

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Note: i) Attempt any five questions.

- ii) All questions carry equal marks.
- Explain various manipulation function used in LISP? Explain with taking a suitable example?
 - Explain following term related to LISP. 7
 - Recursion
 - ii) Predicates and conditionals
- What is production system? Explain it with an example. Discuss the characteristics of a production system.
 - b) Explain best first search techniques?

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Explain about semantic networks with its architecture and explain How it is used for knowledge representation.

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4.	Consider	the followin	g sentences

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- John likes all kinds of food.
- Apples are food www.rgpvonline.com
- Anything anyone eats and is not by is food.
- Chicken is food.

Translate these sentences into predicate logic.

- 5. a) What are the steps in natural language processing? List and explain them briefly?
 - Explain the concept of game playing? Describe any one techniques?
- Explain the basic architecture of an expert system. Also give its applicability it different areas with suitable example? 14
- Explain Top Down parsing and Bottom Up parsing with an example? 7
 - Explain learning? Discuss its various types? 7
- 8. Write a short notes (any two):

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- Reasoning
- AO* Algorithm www.rgpvonline.com
- Planning.

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