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Name.....

Reg. No.....

**SEVENTH SEMESTER B.TECH. (ENGINEERING) DEGREE
EXAMINATION, DECEMBER 2005**

IT 2K 705 C—ARTIFICIAL INTELLIGENCE

Time : Three Hours

Maximum : 100 Marks

Answer all the questions.

Part A

- I. (a) List AI applications.
(b) Discuss about different search strategies.
(c) What are semantic networks ?
(d) How Knowledge acquisition is done ?
(e) What are the characteristics of genetic programming ?
(f) Explain about Bayes Networks.
(g) Explain LISP Primitives.
(h) How Data Abstraction is done in LISP ?

(8 × 5 = 40 marks)

Part B

- II. (a) Discuss about objectives, approaches and problems in AI.

Or

- (b) Explain the role of heuristics in AI problem solving with example.

- III. (a) Describe the following (i) Meta theorems ; and (ii) Horn Clauses.

Or

- (b) Discuss about the requirements in languages for knowledge representation and knowledge representation using frames.

- IV. (a) How Neural networks are developed and used for knowledge base systems.

Or

- (b) Explain the features of natural language processing.

- V. (a) Explain with illustration how Macros are built using LISP.

Or

- (b) Explain how search mechanism is facilitated in LISP programs.

(4 × 15 = 60 marks)