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Total No. of Questions :5]

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EI/IC-7201

B.E. VII Semester

Examination, December 2016

Artificial Intelligence

Time: Three Hours

Maximum Marks:70

Note: i) Answer five questions. In each question part A, B, C is compulsory and D part has internal choice.

- ii) All parts of each question are to be attempted at one place.
- iii) All questions carry equal marks, out of which part A and B (Max. 50 words) carry 2 marks, part C (Max. 100 words) carry 3 marks, part D (Max. 400 words) carry 7 marks.
- iv) Except numericals, Derivation, Design and Drawing etc.

Unit - I

- List AI problems.
 - Define AI and expert systems.
 - Discuss Forward and Backward Reasoning.
 - Define the problem of "play cross" as a state space sensor. OR

Explain control strategies and its characteristics.

Unit - II

- What is Proportional logic?
 - Define predicate logic.
 - What are the limitations of proportional logic over predicate logic?
 - Explain Reasoning problem with the help of a suitable example.

OR

Explain frames and semantic network.

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Unit - III

- What is LISP?
 - What is PROLOG?
 - Define A I techniques and their applications.
 - Explain the characteristics of LISP.

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Explain the important characteristic of PROLOG.

Unit - IV

- What is System Shells?
 - What is medical diagnosis expert system?
 - Discuss some Important expert systems.
 - Explain structure of an expert system.

OR

Discuss steps in the expert system design.

Unit - V

- What is Artificial Neural Network?
 - What are Perceptions?
 - What is Back Propagation?
 - Explain Hopfield Network.

OR

Explain Cohenon self-organising network.

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PTO