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Roll No

IT-833**B.E. VIII Semester**

Examination, June 2017

Artificial Intelligence**(Elective - III)****Time : Three Hours****Maximum Marks : 70**

Note: i) Answer any five questions, each question carries equal marks.
 ii) Assume suitable data if missing.

1. a) Compare and Contrast conventional problem solving techniques with artificial techniques? 7
 b) Define Production system? Also, give its types and characteristics? 7
2. a) Give the state space representation solution of missionary and cannibals problem? 7
 b) Write Steepest Hill Climbing algorithm? How it is different from Hill Climbing? 7
3. a) What are the characteristics of a good knowledge representation technique? Explain each of them in brief. 7
 b) Show using suitable examples how the knowledge is represented by proposition logic and predicate logic? 7

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4. a) Explain with the help of an example the use of unification algorithm to prove the concept of resolution? 7
 b) Describe briefly using example monotonic and non-monotonic reasoning? 7
5. a) Write a script for a restaurant scene from customer point of view. 7
 b) Define Semantic Nets? Draw Semantic Nets for the following sentences - 7
 i) Every dog bites a mail carrier
 ii) John gave a book to marry
6. a) Describe Baye's theorem? Show how it is useful to handle uncertain data? 7
 b) Explain the steps on natural language understanding? 7
7. a) Describe some of the refinement techniques used in minimax search procedure? 7
 b) Explain the concept of learning by induction using example? 7
8. Write short notes on : 14
 a) AO* Search
 b) Fuzzy operations
 c) Supervised Learning

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