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Roll No

IT-7005 (2) (CBGS)

B.E. VII Semester

Examination, November 2019

Choice Based Grading System (CBGS) Artificial Intelligence (AI)

Time: Three Hours

Maximum Marks: 70

Note: i) Attempt any five questions.

- ii) All questions carry equal marks.
- Explain the A* algorithm with suitable example.
 - What is Artificial Intelligence? What are the various application of Artificial Intelligence.
- Define production system? Also, give its types and characteristics.
 - Explain Hill Climbing Algorithm with its limitations.
- What are the characteristics of a good knowledge representation technique? Explain each of them in brief.
 - b) Explain propositional knowledge with suitable examples. Compare it with predicate knowledge.
- Describe briefly using example monotonic and non monotonic reasoning.
 - Write a script for super market shopping as knowledge representation. Also explain the concept of frames.

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- Explain Bay's Theorem? Show how it is useful to handle uncertain data.
 - b) Explain the concept of forward and backward reasoning with the help of example.
- Explain alpha-beta search procedure. How to use in tic-tac-toe game.
 - Explain block world problem in robotics with examples.
- What do you understand by Neural Network? Discuss the application of neural network.
 - b) What is expert system? Discuss its characteristics and applications.
- Give a brief note on natural language processing. Also discuss its application area.
 - b) What is learning? Explain various techniques being used in learning.

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