Total No. of Questions : 8]	[Total No. of Printed Pages : 2

Roll No ....

IT-833 (GS)

B.E. VIII Semester

Examination, November 2019

Grading System (GS)

Artificial Intelligence

(Elective - III)

Time : Three Hours

Maximum Marks : 70

Note : i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) Write about hill climbing technique.

   b) Explain the components to define the problem.

2. a) Write the algorithm for Best first search.

   b) Discuss the application of artificial intelligence.

3. a) Give the state space representation solution of missionary and cannibals problem?

   b) Write Steepest Hill Climbing algorithm? How it is different from Hill Climbing?

4. Write and explain A* algorithm. Identify the conditions at which the A* will become

   i) Breadth first search

   ii) Best first search

5. Explain how Bayesian statistics provides reasoning under various kinds of uncertainty?

6. a) Discuss the block world problem in robotics.

   b) Write the steps of processing of Natural language.

7. Define Semantic Nets? Draw Semantic Nets for the following sentences -

   i) Every dog bites a mail carrier

   ii) John gave a book to marry

8. Draw the neat diagram (labelled) of neural network? How it works? What are the characteristics of neural network?

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