

Roll No

IT-833 (GS)**B.E. VIII Semester**

Examination, May 2018

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 the algorithm for Best first search.
b) Discuss the application of artificial intelligence.
2. a) How to improve the effectiveness of search based problem solving technique?
b) List the types of production systems. Discuss the characteristics of production system.
3. a) Illustrate the use of first order logic to represent the knowledge.
b) Discuss monotonic and non-monotonic reasoning.

4. a) Elaborate on forward and backward chaining.
b) Write short notes on:
 - i) Frames
 - ii) Fuzzy logic
5. a) Discuss the block world problem in robotics.
b) Write the steps of processing of Natural language.
6. a) How can you represent the resolution of predicate logic?
b) What do you mean by ensemble learning?
7. a) Discuss the application of neural networks.
b) What is expert system? Discuss the application of Expert system.
8. Explain in detail about Active and Passive reinforcement learning.
