**BCA(H) 5TH Semester Sessional Examination, AUGUST 2017**

**Subject Name: Artificial Intelligence**

**Duration: 1:30 hr. Max Marks: 50**

**Section A**

**(Short Answer Type) 5 questions of 10 marks each (any 3) 30**

1. Write definition of Artificial Intelligence and explain.

2. What is a Production System and control strategies?

3. Difference between forward and backward chaining?

4. Describe utility based agents with neat and clean diagram.

5. Explain rational agents and environment with diagram.

**Section B**

**(Long Answer Type) 2 questions of 20 marks each (any 1) 20**

1. Explain constraint satisfaction problem with example.

2. Describe A\* algorithm with example.

3. Write DFS and BFS sequence of below graph.



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