**BTECH(CS) VI Semester Sessional Examination, FEB 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?

3. What is forward and backward chaining?

4. What is a Knowledge Based System? Explain.

5. Explain rational agents and environment.

**Section B**

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

1. Explain the heuristic algorithm

2. Write DFS and BFS sequence of below graph.



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