Bapatla Engineering College::Bapatla
Department of Information Technology
Assignment-I

Class: III /IV IT -A&B - I semester

Marks: 10

Sub: AI (20IT504/PE-I)

Duration: 50 min

BITS

1. Define Artificial Intelligence.
2. List out various AI approach.
3. Define Agent
4. What is Environment with respect to AI.
5. Define problem state space.
6. What are the Algorithm performance measurements.
7. List out Uninformed search strategies.
8. What is space complexity for Breadth-first search ?
9. What are the advantages for Iterative deepening search ?
10. What is the heuristic function formula for calculating the fitness number ?

ESSAY QUESTIONS

1. Explain in detail about Nature of Environments and it's Properties.
2. Discuss different structure of agents with neat diagrams .
3. List out various uninformed search strategies and explain about Iterative deepening search strategy.
4. Discuss in detail about Bidirectional search strategy with example.
5. Explain about A* Search strategy with example.