# Artificial Inteligence

2 Marks

1. Compare depth first search and breadth first search.  
2. State the significance of alpha beta pruning.  
3. Express "every house is a physical object" in first order logic.  
4. Define the first order definite clause.  
5. List the criteria to measure the performance of search strategies.  
6. Compare passive and active reinforcement learning.  
7. Distinguish between supervised learning and unsupervised learning.  
8. Define reinforcement learning.  
9. List the various forms of learning.  
10. Define atomic sentence and complex sentence.

11 Marks

1. Explain the min max search procedure in detail with an example.  
2. What is active reinforcement learning? explain with an example.  
3. Explain how alpha beta pruning reduces number of nodes in min max strategy.  
4. Explain in detail inductive logic programming.  
5. How is knowledge represented in uncertain domains? explain.  
6. Draw the structure of an agent and explain its role in problem solving.  
7. Explain iterative deepening with an example.  
8. How is classical planning done efficiently? give an example.  
9. List the significance of a bayesian network. explain in detail how inferences are extracted in a bayesian network.  
10. Explain forward chaining algorithm. trace the algorithm when it is applied to solve the crime problem.