ASSIGNMENT-1

Subject/ Subject Code	Semester/ Branch	Issue Date	Due Date
Artificial Intelligence / 01CE0702	7th – C.E(FOT1-MU)	13-10-2023	31-10-2023

1. Write a short note on different types of Agents and Environment.
2. Define Conceptual Graph. Explain with an example
3. Explain in detail forward and Backward chaining with example
4. Compare the following:
   i) Min Max and Alpha Beta Pruning
   ii) Propositional Logic and Predicate Logic
5. Explain the following Terms:
   i) Deterministic Game
   ii) Non-Deterministic Game
   iii) Zero Sum game
   iv) Game Tree
6. What is Block World Problem, explain using an example
7. What is ANN? What are the advantages and disadvantages of ANN? What is simple Artificial Neuron
8. Explain in detail Iterative Deepening Algorithm using an example
9. Explain the terms:
   i) Semantic Net
   ii) Frames.
   iii) Scripts
   iv) CYC
   v) Conceptual Dependency

10. Explain K means Clustering Algorithm? In the given graph five points are plotted. Use K-Means Algorithm to create two clusters-
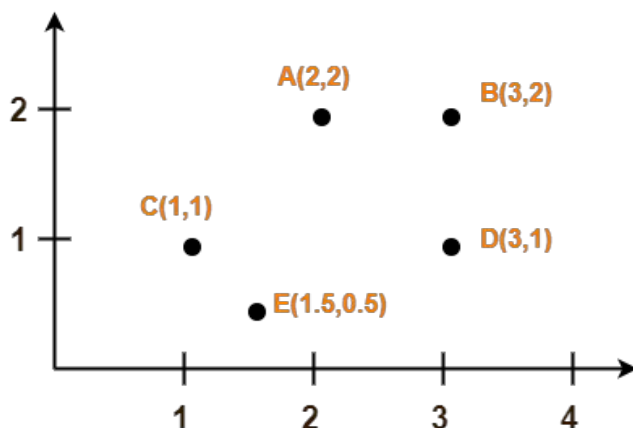
11. What is prolog language? What are the features of Prolog? Why prolog is known as procedural language

12. Explain in detail KNN algorithm in detail. Why KNN algorithm is used in Machine learning?