Questions Bank

Subject: Knowledge Based System Design   **Branch:**M.Tech IT

1. Explain Resolution in Propositional Logic.

2. What are the application areas of Prolog?

3. Write a solution for Water Jug Problem in Prolog.

4. What do you mean by First Order Predicate Logic?

5. What do you mean by Cryptanalytic Problem? Give example.

6. Explain Propositional Logic Concept.

7. Explain Semantic Tebleaux.

8. What are the applications of Knowledge Based System Design?

9. What are problems faced in implementation of Artificial Intelligence Problems.

10. What are the various Knowledge Representation Schemes?

11. Explain concept of Frames using Example.

12. Explain Forward Chaining and Backward Chaining with diagram.

13. Explain rule based system wrt Expert System.

14. What do you mean by Semantic Nets? Give Example.

15. Elaborate architecture of Knowledge Based Systems.

16. What are the problems faced in selecting Representation Techniques?

17. Draw a Semantic Frame for Changing Tyre of Car.

18. What are the characteristics of Good Representation Techniques?

19. Explain and write algorithm for Minimax with alpha beta cut off game playing strategy.

20. Explain Hill Climbing search strategy. Discuss the solutions to problem faced while approaching this strategy.

21. Explain Dempster Shafer theory.

22. Explain AO* algorithm with example.

23. Explain Baye's Theorem.

24. Compare and contrast Monotonic and Non-Monotonic reasoning.

25. Explain Heuristic Search Tecniques.

26. What are various problems in Hill Climbing? Write their solution also.

27. Compare Informed and Uninformed Search Techniques.

28. Explain Uncertainty management in Expert Systems.

29. What do you mean by Fuzzy Logic? Explain.

30. What do you mean by Fuzzy Reasoning?

31. How Fuzzy Logic is applied in Knowledge Based System Designing?

32. What do you mean by Probabilistic Methods?

33. What do you mean by agents in AI?

34. What are the applications of intelligent systems.