UNIT III

1. With an example explain the knowledge representation using semantic nets and frames
2. What is knowledge representation explain various approaches to knowledge representation
3. Give an Overview of various knowledge representation approaches.
4. Illustrate knowledge representation using sematic network with suitable example
5. Define Frame Explain Knowledge representation using Frames
6. What are semantic networks?
7. Explain frames
8. What is inheritance
9. Explain working process of constraint propagation
10. What is rule-based systems explain with example
11. Wha is rule based deduction system. and explain rule-based deduction types with example
12. What is reasoning under uncertainty explain with an example
13. Explain Bayes' theorem. Explain with an example
14. What is Dempster-Shafer theory? Explain with an example

UNIT IV

1. Explain First Order Logic with example
2. Explain inference in First Order Logic
3. Differentiate propositional and first order inference
4. Explain unification and lifting
5. Explain forward chaining with example
6. Explain backward chaining with example
7. Explain resolution in logic
8. Explain inductive learning
9. Explain decision trees
10. Explain Explanation-Based Learning
11. Explain statistical learning methods
12. Explain reinforcement learning

UNIT V

1. With the help of neat diagram Explain the architecture of an expert system and give its three application areas.
2. What is inference engine describing backward and forward chaining mechanism used by an Inference engine.
3. Explain the process of knowledge acquisition and validation for expert systems
4. Illustrate in details about the various tools used in building an expert system.
5. Classify various Expert system shells and tools
6. Explain the use of expert system shells what are the different ways to make the expert system effective.
7. List and explain the components of expert systems and how they work together.
8. Describe the forward chaining and backward chaining inference strategies in expert system
9. Explain The Applications of Expert Systems
10. Explain about MYCIN Expert system in detail
11. Explain the phases in building expert system
12. Explain Expert system architecture describing its components.
13. Explain meta knowledge with example.
14. Role of meta knowledge in expert systems.
15. Difference between knowledge and meta knowledge.
16. How meta knowledge improves performance?
17. Explain importance of meta knowledge.
18. Explain about DART system in detail
19. Explain about XCON system in detail