

Roll No. ....

Total Pages : 03

**BT-7/D-18**  
**EXPERT SYSTEMS**  
**CSE-425N**

**37154**

Time : Three Hours]

[Maximum Marks : 75

**Note :** Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

**Unit I**

1. (a) When is it advisable to use depth-first search over breadth-first search and vice-versa ? Discuss.  
(b) Differentiate between declarative frames and procedural frames using suitable examples.
2. (a) What is mini-max search ? Discuss the use of alpha and beta cut offs to refine the mini-max search using suitable examples.  
(b) What are the desirable characteristics of a knowledge representation scheme ? Write a note on representing the knowledge using rules.

**Unit II**

3. (a) Discuss the factors motivating the use of Expert Systems.  
(b) What are the advantages of keeping the knowledge base separate from inference mechanism in Expert Systems ? Discuss.
4. (a) What are the different techniques of representing the knowledge in Expert Systems ? Discuss.  
(b) What are the types of problems handled by Expert Systems ? Discuss.

**Unit III**

5. (a) What are the different tools required for Expert System development ? Discuss.  
(b) What are the different stages in Expert system development ? Discuss.
6. Expert knowledge is generally subconscious in nature. So how is it acquired to populate the knowledge base of Expert Systems ? Discuss.

#### **Unit IV**

7. Write a detailed note on common pitfalls in planning for expert system development.
8. What are the common inconsistencies observed in rule-based knowledge representation ? Discuss.

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