

Roll No.

Total Pages : 03

BT-7/D-19
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) Discuss some of the potential problems, when hill climbing search is used ? Give example of each. 7
(b) What are alpha and beta cutoffs for minmax algorithm ? Explain the role of alpha and beta values. 8
2. (a) Elaborate a decision tree architecture of an expert system. 7
(b) Identify and describe two good application areas for an expert system with a university environment. 8

Unit II

3. (a) What basic operations, must a program perform in order to access specific knowledge ? 7
(b) Write a note on conceptual dependency for knowledge acquisition ? <http://www.kuonline.in> 8
4. (a) What is knowledge based architecture of an expert system ? What are its advantages ? 7
(b) Give an example of the use of metaknowledge in an expert system inference. 8

Unit III

5. Discuss the following expert system development stages :
(a) Decision about development
(b) Tools for design
(c) Implementation. 5,5,5
6. (a) Discuss utility of expert system in control and prediction application areas. 8
(b) What are the problems of present days expert systems ? 7

Unit IV

7. Discuss the role of the following persons in expert system development :
- | | |
|--------------------------------------|---|
| (a) Domain Expert | 7 |
| (b) Updation, review and changeover. | 8 |
8. Enlist advantages of using an expert system in analysis, design and planning areas. 5,5,5

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