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BT-7/D-19   37154

EXPERT SYSTEMS
CSE-425N

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