Roll No					Fotal Pages: 03		
BT-7/M-20				20	37154		
EXPERT SYSTEMS							
CSE-425N							
Time : Three Hours]				[Maxin	[Maximum Marks : 75		
Not	e :	Attempt Five que question from ea marks.					
Unit I							
1.	(a) Compare hill climbing algorithm and best first sea						
		techniques.	3		7		
	(b) What is Minmax strategy for game playing						
	Develop an algorithm for Minmax.						
2.	. What is main difference between scripts and fran						
	structures for knowledge representation? Also write their						
	advantages and limitations.						
Unit II							
3.	(a)	Briefly give h	nistorical	evolution	of an expert		
		system.			7		

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(b) Elaborate rule-based architecture of an expert system.
8
(a) Explain, how uncertainty is propagated through a chain of rules during consultations with an expert system?
7
(b) Identify and describe two good application areas

for an expert system with a medical college and

## **Unit III**

- 5. Discuss the following expert system development phases:
  - (a) Problem Identification
  - (b) Development of prototype

hospital environment.

(c) Planning a full stage system.

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8

- 6. (a) Elaborate the major problems faced in knowledge acquisition.
  - (b) How expert system tools help in expert system development ?

## **Unit IV**

- **7.** Discuss the role of the following personals in an expert system development:
  - (a) User
  - (b) Knowledge Engineer
  - (c) System Development personal.

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4.

- **8.** Write notes on the following:
  - (a) Tunning an expert system
  - (b) Verifying an expert system
  - (c) Validating an expert system

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