Roll-No.	
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Total Pages: 2

BT-7/D-22

47248

EXPERT SYSTEMS

Paper-PE-CS-D415A

Time Allowed: 3 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) Explain the Holistic view of expert systems with the help of some real time examples.
 - (b) What is meant by knowledge representation? Also explain different types of expert system.
- 2. (a) Which are the features and capabilities that must be there in any tool of expert system?
 - (b) What are the application benefits of an expert system and different problem areas addressed by it? 7

Unit-II

- 3. (a) What is main difference between Scripts and Frame structures for knowledge representation? Also write their advantages and limitations.
 - (b) What is the role of knowledge engineering in expert system? Why knowledge acquisition is often called a bottleneck of the process of knowledge engineering? 7

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4.	Elabo	orate in detail various stages in expert system lopment process with diagram.	۱ 5
36		Unit-III	
5.	(a)	Identify the role of selection of a tool in developing expert system.	3. 8
n n Tps	(b)	What is the main issue in expert system development. What are the methods of developing expert systems.	? ? 7
6.	(a)	How is knowledge acquired in an expert system? Why knowledge acquisition is difficult in an expert system	?
	(b)	What is the correct process sequence of building a expert system? How do you build an expert system efficiently?	

Unit-IV

- 7. What is Domain expert in expert system? Who formulates the Domain expertise into an expert system? 15
- 8. What are the problems faced in expert systems? Which one is the biggest bottleneck in building an expert system?