## CBCS SCHEME

USN					20MAR/MCM31
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## Third Semester M.Tech. Degree Examination, Feb./Mar.2022 Artificial Intelligence & Expert System in Automation

Time: 3 hrs.		hrs.	Max. Marks: 100							
Note: Answer any FIVE full questions, choosing ONE full question from each module.										
		Module-1								
1	a.	Explain with a neat diagram, Knowledge Acquisition system.	(10 Marks)							
	b.	Define Expert System. Describe organization of an expert system w	ith a neat diagram.							
			(10 Marks)							
		OR								
2	a.	Explain production system and its characteristics.	(10 Marks)							
	b.	Define Artificial Intelligence. Explain any eight applications of AI.	(10 Marks)							
		Module-2	(10 M/o viko)							
3	a.	Explain five types of knowledge Acquisition techniques.	(10 Marks)							
	b.	Explain the architecture of knowledge based agent with an neat diag	gram. (10 Marks)							
		OR								
			(10 Marks)							
4	a.	Discuss in brief interpreters and embedded languages.  Explain recursive unification function in detail.	(10 Marks)							
	b.	Explain recursive diffication tunetion in detain.								
ľ		Module-3								
5	a.	Define total life cycle cost and explain sensitivity analysis.	(10 Marks)							
3	ь. b.	Explain compatibility analysis with an example.	(10 Marks)							
		OR	"							
6	a.	Explain Life Cycle Ranking in detail.	(10 Marks)							
	b.	Explain five different types of Decision Support System.	(10 Marks)							
		Madula 4								
_		Module-4	(10 Marks)							
7	a.	Explain with a neat sketch competitive learning.	(10 Marks)							
	b.	Explain briefly methods of inference.								
	196	OR								
8	a.	Explain briefly artificial life and society.	(10 Marks)							
O	b.	Explain five states of General Problem solver.	(10 Marks)							
		Module-5	***********							
9	a.	Explain Backward and Forward chaining Inference techniques.	(10 Marks)							
	b.	Explain expert system shells with a neat diagram.	(10 Marks)							
		A OD								
£5		OR	(10 Marks)							
10		Explain the structure of fuzzy logic controller.	(10)							
	b.	Write a short note on:  (i) MYCIN								
		TO STORY OF STORY								
			(10 Marks)							
		(iii) DENDRAL.								

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.