CBCS SCHEME

Artificial Intelligence									
	Fi	fth Se	meste	r B.E.	Degre	ee Examination, Dec.2023/Jan.2	2024		
USN							15CS562		
			T			1	150050		

Artificial Intelligence									
Tin	ner 3	S. hrs	Marks: 80						
Time: 3 hrs. Note: Answer any FIVE full questions, choosing ONE full question from each module.									
1	_	Module-1 What is AI technique? List less desirable properties and representation of knowle	edge						
1	a.	what is AI technique? List less deshable properties and representation of knowle	(08 Marks)						
	b.	Explain production system with components and characteristics. List the rec							
		good control strategies.	(08 Marks)						
_		OR OR	(00 M 1)						
2	a.	List and explain the AI problem characteristics.	(08 Marks)						
	b.	Explain constraint satisfaction and solve the cryptarithmetic problem: CROSS + ROADS = DANGER.	(08 Marks)						
		CROSS + ROADS - DANGER.	(00 Marks)						
		Module-2							
3	a.	Explain the approaches to knowledge representation.	(10 Marks)						
	b.	Write a note on control knowledge.	(06 Marks)						
		OR OR	(06 Marks)						
4	a. b.	State the algorithm to Unify (L ₁ , L ₂). Write the algorithm for conversion to clause form.	(10 Marks)						
	υ.	Write the algorithm for conversion to clause form.							
		Module-3							
5	a.	Define Frame. State the bayes theorem and explain the notations used.	(06 Marks)						
	b.	Write a note on Justification based Truth Maintenance System (JTMS).	(10 Marks)						
		OR							
6	a.	Write a note on closed world assumption.	(06 Marks)						
Ü	b.	Explain Bayesian network.	(10 Marks)						
		Module-4	(00.34						
7	a.	Explain conceptual dependency along with its goals and representation.	(08 Marks) (04 Marks)						
	b.	Give the reasons to build large databases. Write a note on iterative deepening.	(04 Marks)						
	C.	Write a note on nerative deepening.	(0.000,000,000,000,000,000,000,000,000,0						
		OR							
8	a.	Write a note on global ontology.	(10 Marks)						
	b.	Explain Minimax search procedure.	(06 Marks)						
		Module-5							
9	0	Explain classification of spell checking techniques.	(06 Marks)						
7	a. b.	Explain knowledge acquisition.	(10 Marks)						
	٥.								
		OR	(0437-1-)						
10	a.	Briefly explain four ways of handling sentences.	(04 Marks)						
	b.	Write a note on decision trees.	(06 Marks) (06 Marks)						
	c.	Write the algorithm for candidate elimination.	(oo mains)						

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