		CBCS SCHEME	
USN			15CS562
		Fifth Semester B.E. Degree Examination, June/July 2023	
		Artificial Intelligence	
Tim	ne: 3	hrs. Max. M	arks: 80
	N	ote: Answer any FIVE full questions, choosing ONE full question from each m	odule.
		Module-1	
1	a.	What is Artificial Intelligence? List the task domains of Artificial Intelligence.	(06 Marks) (06 Marks)
	b.	Explain Means – Ends Analysis with an example. Explain Production System.	(00 Marks) (04 Marks)
	C.		(*********
		OR	(00) (-)-)
2	a.	Write a note on Water Jug Problem using Production Rules.	(08 Marks) (04 Marks)
	b.	Explain how AND – OR graphs are used in Problem reduction. Explain Depth – First search algorithm with an example.	(04 Marks) (04 Marks)
	C.	Explain Depth – First search algorithm with an example.	(04 1/141 165)
		Module-2	
3	a.	Explain and illustrate unification algorithm.	(06 Marks)
	b.	What are the properties of a good system for the representation of knowledge?	(04 Marks) (06 Marks)
	C.	Discuss how forward reasoning is different from backward reasoning.	(UU Marks
		OR	
4	a.	With an illustration explain the process of converting well formed formulas to	clause form
	•••		(08 Marks
	b.	Write a note on : i) Conflict resolution ii) Logic programming.	(08 Marks)
		Madula 3	
_		<u>Module-3</u> Define Frame. State the bayes theorem and explain the notations used.	(06 Marks)
5	a. b.	Write a note on Justification based Truth Maintenance System (JTMS).	(10 Marks)
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		OR	
6	a.	Write a note on closed world assumption.	(06 Marks (10 Marks
	b.	Explain Bayesian network.	(10 14141 K3
		Module-4	
7	a.	Explain the Conceptual dependency representation of an event or action.	(08 Marks
	b.	What is Script? Write a script for ordering scene in Restaurant.	(08 Marks
		OR	
8	a.	Explain MINMAX Search procedure.	(08 Marks)
0	b.	Write a note on Iterative deepening.	(04 Marks)
	c.	Give the reasons to build large databases.	(04 Marks)
		Module-5	
9	0	Enlist and explain different components of natural language understanding proc	ess.
9	а.	Emist and explain different components of natural imgenge	(08 Marks
	b.	How can a program get better without the aid of a teacher?	(08 Marks
	0.	OR	
10	a.	Write a note on Analogy.	(05 Marks
10	b.	Which are the capabilities of expert systems?	(04 Marks
	c.	Distinguish semantic and ease grammers.	(07 Marks
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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.