15CS562

(04 Marks)

(07 Marks)

Fifth Semester B.E. Degree Examination, June/July 2023 **Artificial Intelligence**

Max. Marks: 80 Time: 3 hrs.

Note: Answer any FIVE full questions, choosing ONE full question from each module.

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Mod	din	10-	ĺ

		Module-1			
1	a.	What is Artificial Intelligence? List the task domains of Artificial Intelligence.	(06 Marks)		
1	b.	Explain Means – Ends Analysis with an example.	(06 Marks)		
	c.	Explain Production System.	(04 Marks)		
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	OR				
2	a.	Write a note on Water Jug Problem using Production Rules.	(08 Marks)		
	b.	Explain how AND – OR graphs are used in Problem reduction.	(04 Marks)		
	c.	Explain Depth – First search algorithm with an example.	(04 Marks)		
Module-2					
3	a.	Explâin and illustrate unification algorithm.	(06 Marks)		
5	b.	What are the properties of a good system for the representation of knowledge?	(04 Marks)		
	c.	Discuss how forward reasoning is different from backward reasoning.	(06 Marks)		
	0.	Discuss now forward reasoning in			
		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 2			
_		Module-3 Define Frame. State the bayes theorem and explain the notations used.	(06 Marks)		
5	a.	Write a note on Justification based Truth Maintenance System (JTMS).	(10 Marks)		
	b.	Write a note on Justinication based Truth Maintenance Bystein (311415).	(10 1111111)		
		ÓR			
6	a.	Write a note on closed world assumption.	(06 Marks)		
	b.	Explain Bayesian network.	(10 Marks)		
-		Module-4 Explain the Conceptual dependency representation of an event or action.	(08 Marks)		
7	a.	What is Script? Write a script for ordering scene in Restaurant.	(08 Marks)		
	U.	What is Script! Write a script for ordering score in resonance.			
		OR	60 to 100 and a		
8	a.	Explain MINMAX Search procedure.	(08 Marks)		
	b.	Write a note on Iterative deepening.	(04 Marks)		
	C.	Give the reasons to build large databases.	(04 Marks)		
		Module-5			
9	a.	Enlist and explain different components of natural language understanding productions	ess.		
9	a.	Emist and explain different components of have a market and a market a	(08 Marks)		
	b.	How can a program get better without the aid of a teacher?	(08 Marks)		
OR					
10	a	Write a note on Analogy.	(05 Marks)		
10	a.	Wille a note on a man of.	200		

Write a note on Analogy.

Which are the capabilities of expert systems? Distinguish semantic and ease grammers.

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.