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15CS562

(08 Marks)

(08 Marks)

## Fifth Semester B.E. Degree Examination, Feb./Mar. 2022 **Artificial Intelligence**

Time: 3 hrs.

Max. Marks: 80

	N	ote: Answer any FIVE full questions, choosing ONE full question from each mod	lule.
		Module-1	
1	a.		(06 Marks)
•	b.		(06 Marks)
	c.		(04 Marks)
		OR	
2	a.		(08 Marks)
	b.		(04 Marks)
	c.		(04 Marks)
	<b>U</b> .		(
		Module-2	
3	a.		(10 Marks)
	b.	Distinguish Forward and Backward reasoning. Explain with example.	(06 Marks)
		OR	
4	a.		(10 Marks)
•	b.		(06 Marks)
		Module-3	
5	a.	Define Baye's theorem.	(06 Marks)
	b.	Explain Dempster – Shafer theory with example.	(06 Marks)
	C.	Briefly explain the motivation for Fuzzy logic.	(04 Marks)
		OR	
6	a.	Explain Bayesian Networks.	(06 Marks)
	b.	Define Semantic network with an example.	(04 Marks)
	c.	Explain Non-Monotonic logic and Default logic with example. Which are the two	common
		kinds of Non-monotonic reasoning defined in these logics?	(06 Marks)
		Module-4	
7	o #	Explain the Conceptual dependency representation of an event or action.	(08 Marks)
,	a. h	What is Script? Write a script for ordering scene in Restaurant.	(08 Marks)
	U.	What is soript.	
		OR	
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.	What is Natural Language Processing? Explain the steps in process.	(08 Marks)
	b.	Explain Candidate Elimination Algorithm, with example.	(08 Marks)
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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.

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a. Explain Knowledge Acquisition.b. Discuss the Spell Checking Techniques.

OR