## CBCS SCHEME

13			
(A)			
			18CS753
//S/ HIGH			1005/53
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Seventh Sei	mester B.E. Degr	ee Examination, Fo	eb./Mar.2022
WO CIVIN /	advection to A	rtificial Intellig	onee
*/ Intro	duction to A	rtificial intellig	ence
ATT. 2 Min			Mary Mouleau 100
Time: o ars.			Max. Marks: 100
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HAP.	ne; 3 h	max. Max	rks: 100
	Note	e: Answer any FIVE full questions, choosing ONE full question from each mode	ule.
		Module-1	
1	a. W		05 Marks
			07 Marks)
			08 Marks
		OR	
2	a. So	olve the cryptoarithemetic problem given below with proper steps.	
		POINT	
		+ZERO	
		ENERGY (	05 Marks)
	b. Ex	xplain the four categories of production systems with an example for each.	07 Marks)
	c. Ex	xplain the decomposable and non-decomposable problem with an example.	08 Marks)
		Module-2	
3	a. Di		05 Marks)
			07 Marks)
		onsider the following sentences:	
	•	John likes all kinds of food.	
	•	Apples are food.	
		Chicken is food.	
	•	Anything any one eats and is not killed by is food.	
	•	Bill eats peanuts and still alive.	
	•	Sue eats everything bill cats	
	(i)		
	(ii		08 Marks)
		OR	
4	a. W		05 Marks)
			7 Marks)
		onsider the following facts:	ĺ
	•	Marcus was a man.	
	•	Marcus was a Pompeian.	
	•	All pompeians were Romans.	
	•	Caeser was a ruler.	
	•	All romans were either loyal to caeser or hated him.	
	•	Everyone loyal to someone.	
	•	People only try to assassinate rulers they are not loyal to.	
	•	Marcus try to assassinate ceaser.	
	(i)		
	(ii)		
			Marks)

(08 Marks)

	Module-3	
5	a. What is Non-Monotonic reasoning?	(05 Marks)
3	b. Explain default reasoning and minimalist reasoning.	(10 Marks)
	c. Explain closed world assumptions.	(05 Marks)
	OR	
6	a. Define the Bayes theorem.	(05 Marks)
	b. Explain JTMS and dependency directed backtracking.	(10 Marks)
	c. Explain Bayesian networks with a diagram.	(05 Marks)
	Module-4	
7	a. Explain the steps involved in natural language processing.	(08 Marks)
	b. Explain the minmax search with an example.	(08 Marks)
	c. Write an interactive deepening A* algorithm.	(04 Marks)
	OR	
8	a. What is conceptual parsing?	(05 Marks)
	b. Write a short notes on Alpha-beta cutoffs.	(08 Marks)
	c. Derive the parse tree for the following sentence making use of appropriate gram	ımar:
	"Bill printed the file".	(07 Marks)
	Module-5	(07.34 - I)
9	a. What is the role of expert system and knowledge acquisition?	(05 Marks)
	b. Write a note on explanation-based learning and explain rote learning with an ex	(10 Marks)
	C. Diames the concept of learning from taking advice	(05 Marks)
	c. Discuss the concept of learning from taking advice.	(00 11201115)
	OR CMRIT CIBRARY	
10	a. What do you mean by expert shell?  BANGALORE - 560 037	(05 Marks)
10	b. Explain Winston's learning program in detail.	(10 Marks)
	c. Discuss the concept of learning by chunking.	(05 Marks)
	c. Discuss are concept of forming	
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