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	TERM END EXAMINATIONS (TE	· · · · · · · · · · · · · · · · · · ·	-	
Programme Course Name	B.Tech - CSE e : Fundamentals of AI and ML	Semester Course Code	: Fall 2020-2 : CSA2001	021
Faculty Nam		Slot / Class No	: CSA2001 : A11+A12+.	<u>A 13/0038</u>
Fime	: 1 <sup>1</sup> / <sub>2</sub> hours	Max. Marks	: 50	A15/0050
	Answer ALL t	ne Questions		
Q. No.	Question Descr	ription		Marks
	PART - A (	-		
1 (a) I	Explain the significance of State space sear	ch in solving an AI 8 puzz OR	le problem.	10
	Western Australia South Australia Vio Tasmania	Island New South Wales ttoria		
	Tasmania			
2 (a) A	<ul><li>Assume the following facts:</li><li>Raja likes all kind of food</li></ul>			5

	(b)(i)	Translate the following three statements in First Order Logic, and then deduce (iii)	6		
	form (i) and (ii):				
		(i) Lord Krishna is loved by everyone who loves someone.			
		(ii) No one loves nobody			
		(iii) Lord Krishna is loved by everyone			
	(ii)	Discuss the Multi Agent system with neat diagram.	4		
3	(a)	Describe the learning process in Neural Network with suitable diagram.	10		
	OR				
	(b)	(b) Illustrate the following types of Machine Learning with suitable example.			
		(i)Supervised Learning			
		(ii)Unsupervised Learning			
	(iii)Reinforcement Learning				
		PART - B (20 Marks)			
	4 Illustrate Hill Climbing search technique. How is it different from A* search technique?		10		
4	5	The values of independent variable x and dependent value y are given below:			
		X Y			
		0 2			
		1 3			
		2 5	10		
		3 4			
		4 6			
		Find the least R square regression line $y=ax+b$ . Estimate the value of y when x is 10.			
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