

Reg. No.:

## TERM END EXAMINATIONS (TEE) – December 2021- January 2022

Programme	: B.Tech BCE	Semester	: Fall 2021-22
Course Name	: Fundamentals in AI & ML	Course Code	: CSA2001
Faculty Name	: Mr. E.Silambarasan	Slot / Class No	: F11+F12+F13 / 0763
Time	: 1½ hours	Max. Marks	: 50

#### **Answer ALL the Questions**

### PART - A (30 Marks)

1 (a) Explain problem solving approaches involved in searching problem with example. 10

**Question Description** 

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(b) Write and trace the min max algorithm and explain with given example? 10



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2 (a) Define Unification and write its algorithm. Explain it with given problems. Find the 10 MGU of {p(f(a), g(Y)) and p(X, X)}, UNIFY(prime (11), prime(y)).

#### OR

- (b) Explain in detail about trust and reputation in MAS with suitable examples. 10
- 3 (a) Write Prolog program for family tree with recursion and check whether given string is 10 palindrome or not.

OR

(b) Differentiate the types of learning with suitable real time examples. 10

# PART - B (20 Marks)

4 Solve the given sudoku problem and explain the problem-solving steps involved in this 10 problem with its constraints.

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7	8			4	3			
	3				5		1	
5		9		8				
	7		5	3	2			
4				7		5		8
	1	2				9	6	3
9	5			1		4		2
	4			6				

5 Discuss about features of Machine Learning and Why python is highly recommended 10 platform for Machine learning algorithms.

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