Reg. No.:

Name :



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

Programme	: B.Tech.	Semester	: Fall 2021-22
Course Name	: FUNDAMENTALS IN AI and ML	Course Code	: CSA2001
Faculty Name	: Dr. RAKHI	Slot / Class No	: A11+A12+A13 /0039
Time	: 1½ hours	Max. Marks	: 50

Answer ALL the Questions

Q. No.		Question Description	Marks
1	(a)	PART - A (30 Marks) i) Explain the Turing Test approach with an example.	5
		ii) How a Simple reflux agent is different from a Model-based Reflux agent. Show diagrammatically.	5
		OR	
	(b)	What are Constraint satisfaction Problems? Solve the following CSP problem using step by step procedure:	10
		USA + USSR = PEACE	
2	(a)	How to represent knowledge with the help of semantic network Explain with the help of a suitable example.	10
	(b)	OR What is the basic typology of Interaction? How the communication process is important for intelligent agents? Explain in the context of Agent communication languages.	10
3	(a)	i) Why argumentation is important for Agent communication? Explain the process of Argumentation with an example.	6
		ii) Write Prolog code for recursion using a suitable example.	4
	(b)	OR Explain the Concept Learning task with all possible sets of concepts and examples in predicting the value of target variable.	10

PART - B (20 Marks)

- i) Justify the importance of Best First Search in the context of the greedy 6 approach.
- ii) How Game theory is important and how this is different from search problems?
- iii) What is the Description Logic and Truth Maintenance System? How these 4 are important for reasoning?
- 5 What are the possible Machine Learning Problems? What are the Perspectives and 10 issues in Machine Learning problems? How to solve these issues?

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