Reg. No.:
Name :



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

Programme	: B. Tech	Semester	: Fall 2021-22
Course Name	: Fundamentals in AI & ML	Course Code	: CSA2001
Faculty Name	: Dr. Mahendra Pratap Yadav	Slot / Class No	C11+C12+C13/BL20
racuity Name	DI. Manenura Fratap Fadav	Slot / Class No	· 21221000042
Time	: 1½ hours	Max. Marks	: 50

Answer ALL the Questions

Q. No.		Question Description						
	PART - A (30 Marks)							
1	(a)	What Comprises to Artificial Intelligence? Discuss the advantages and disadvantages of the Artificial Intelligence in the context of any five applications where Artificial Intelligence will play an important role to solve their real problems. OR	10					
	(b)		10					
2	(a)	Discuss the concept of First Order Logic (FOL) inference rules in details. Explain the concept of Unification with the help of example.	10					
		OR						
	(b)	What is the use of Inference engine? Explain the difference between the forward chaining and backward chaining. Discuss the properties of the backward chaining. Apply the forward chaining on the over the example: "the law says that it is a crime for an American to sell weapons to hostile nations. Country Pakistan, an enemy of America, has some missiles, and all the missiles were sold to it by Trunk, who is an American citizen". So prove that "Trunk is criminal".	10					

3	(a)	Discuss the concept of V following example.	ersion S	ersion Space and explain the List-Then algorithm with the			th the 10		
			Example	Have Money	Free	Watch Movie			
			1	Yes	Yes	Yes			
			2	Yes	No	Yes			
			3	No	Yes	No			
			4	No	No	No			
		<u> </u>			OR				
	(b)	Explain the concept of FACTS, RULES, and QUERIES in the context of PROLOG programming. Explain these concepts with the help of an example.					DLOG 5		
	ss the								
			PA	RT - B ((20 Mar	rks)			
4		Explain the concept of A than MINIMAX approach.							
	10 5 7 11 12 8 9 8 5 12 11 12 9 8 7 10								
		1	Figure 2			7.2020 N			
5		Explain the concept of Falong with the function.	-		_		-		
				$\Leftrightarrow \leftarrow$	$\Rightarrow \Leftrightarrow$				