Velegapudi Ramakrishna Siddhartha Engineering College::Vijayawada
(Autonomous)
III /IV B Tech Degree Examinations(April/2022)
Fifth Semester
Department of Information Technology
20IT5205A - AI TOOLS, TECHNIQUES AND APPLICATIONS

VR20

Time:3Hrs	**MODEL QUESTION PAPER**		Max Marks:70	

Part – A is Compulsory
Answer one (01) question from each unit of Part – B
Answers to any single question or its part shall be written at one place only

Cognitive Levels(K): K1-Remember;K2-Understand; K3-Apply; K4-Analyze; K5-Evaluate; K6-Create

Q. No		Question	Marks	Course Outcome	Cog. Level
		Part - A		**10X1=10M**	
1	a	List out the applications of AI	1M	CO1	K2
	b	Where can we use Decision tree	1M	CO2	K2
	c	Write the uses of NLP	1M	CO3	K2
	d	Define unsupervised learning	1M	CO2	K1
	e	Difference between Propositional Logic and First order Logic	1M	CO1	K2
	f	What is Knowledge based Agent?	1M	CO2	K1
	g	Define DFS	1M	CO1	K1
	h	Write about the reinforcement learning	1M	CO4	K1
	I	Distinguish syntax and semantics with an example	1M	CO1	K2
	j	Define artificial intelligence	1M	CO1	K2
		Part - B		**4X15 =60M**	
		UNIT - I			
2	a	Illuminate Back-tracking search algorithm in detail in CSP with an any application.	7M	CO1	K3
	b	Discuss the role of AI in dealing with current problems .	8M	CO1	K2
		(OR)			
3	a	How to provide the solutions for Well-defined problems.	8M	CO1	K1
	b	Write about any two Uninformed Search Strategies	7M	CO1	K2
		UNIT - II			
4	a	Write about decision trees and how they are useful in learning	10M	CO2	K4
	b	Illustrate how to update the probabilities of hypotheses when given evidence.	5M	CO2	K2
		(OR)			
5	a	Describe the role of uncertainty in Artificial Intelligence and interpret the basic Probability notation.	8M	CO2	K4

	b	Discuss the design of a Learning element that is affected by three major issues.	7M	CO4	K4
		UNIT - III			
6	a	List out explain the strategies for implementing NLP	8M	CO3	K2
	b	State how do chatbots guarantee the future of digital marketing?	7M	CO3	K6
		(OR)			
7	a	What is a Chatbot? Describe the process of how to build a chatbot.	8M	CO3	K4
	b	Write about best practice for chatbot development	7M	CO3	K6
		UNIT - IV			
8	a	Elucidate the working of Google's Deepmind in AlphaGo	8M	CO4	K4
	b	Illustrate about action value function	7M	CO4	K2
		(OR)			
9	a	Describe the characteristics of the environment to determine right models for an AI	6M	CO4	K4
	b	Differentiate how AI is better than humans at games like Jeopardy	9M	CO4	K2