O.P.Code: 20CS1401	R20	H.T.No.									

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
B.Tech II Year II Semester Regular& SupplementaryExaminations June-2024
ARTIFICIAL INTELLIGENCE AND ITS APPLICATIONS
CSE(Artificial Intelligence)

Time: 3 Hours **Max. Marks: 60**

(Answer all Five Units **5 x 12 = 60** Marks)

		UNIT-I			
1	a	Define Artificial Intelligence and Elaborate about its think ability.	CO1	L3	6M
	b	Explain the role of AI in Education and Finance.	CO1	L4	6M
		OR			
2	a	Discuss the role of AI in Online and telephone customer service.	CO1	L2	6M
	b	What are the languages that support AI over a period of time? Explain.	CO1	L3	6M
		UNIT-II			
3	a	Explain about DFS. Deduce it with an example. List its Pros and Cons.	CO2	L4	6M
	b	Write an example program for DFS using python.	CO2	L2	6M
		OR			
4	a	Differentiate informed search and uninformed search.	CO2	L3	6M
	b	Write a short note on Problem Reduction "AND-OR" graphs with an example.	CO2	L2	6M
		UNIT-III			
5	a	What is Propositional Logic? Explain the facts and types in it in detail	CO3	L3	6M
	b	How effectively Propositional Calculus is used in AI? Explain	CO3	L2	6M
		OR			
6	a	Write the algorithm of "Resolution in Propositional Logic" and explain with an example.	CO3	L4	6M
	b	Explain in detail about Forward and Backward Chaining in AI.	CO3	L2	6M
		UNIT-IV			
7	a	How representations and Mappings in KR is done? Explain.	CO4	L2	6M
	b	Describe the approaches to Knowledge Representation.	CO4	L3	6M
		OR			
8	a	Distinguish Inferential Knowledge Vs Procedural Knowledge.	CO4	L4	6M
	b	How non binary predicates are represented using semantic net. Explain with suitable example.	CO4	L2	6M
		UNIT-V			
9	a	Briefly explain the Robotic Perceptron in AI.	CO5	L4	6M
	b	Explain Information Retrieval in AI.	CO5	L2	6M
		OR			
10	a	Explain the types, components and characteristics in Perceptron.	CO5	L3	6M
	b	Discuss the components in Robotic Hardware.	CO5	L2	6M

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