O.P.Code: 20CS0901

R20

H.T.No.

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR (AUTONOMOUS)

B.Tech II Year II Semester Regular & Supplementary Examinations June-2024 FUNDAMENTALS OF ARTIFICIAL INTELLIGENCE

(Common to CAD & CSM)

Time		: 3 Hours	Max. Marks: 60								
		(Answer all Five Units $5 \times 12 = 60$ Marks)	AVA CAAN O	TATOUTE	.S: OU						
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		UNIT-I									
1	a	Define AI. How it is organized? Explain the categories of it in detail.	CO1	L1	6M						
	b	Explain the role of AI in Education and Finance.	CO ₁	L2	6M						
		OR									
2		Discuss in detail about Intelligent System with examples.	CO1	L2	12M						
		UNIT-II									
3	a	Prepare a Graph tree for Min Max Search Procedure and explain it in detail.	CO2	L6	6M						
	b	How water jug problem is effective in problem solving. Deduce with an example.	CO2	L2	6M						
	OR										
4	a	Explain BFS Technique with an example. List the Pros and Cons in it.	CO2	L2	6M						
		What are the characteristics of a problem? How effectively it can be solved?	CO2	L1	6M						
		UNIT-III									
par	_	Revision решения в поставления в поставлени	CO3	L2	6M						
5	а	Discuss about "Resolution in Propositional Logic" and explain with an example.	COS	9.124	CHAT						
	b	Express Tautologies and Contradictions with Truth tables.	CO ₃	L2	6M						
		OR									
6		Explain the concept of Predicate Logic with examples.	CO4	L2	12M						
		UNIT-IV									
7	a	How representations and Mappings in KR is done? Explain.	CO5	L2	6M						
,		Describe the approaches to Knowledge Representation?	CO5	L2	6M						
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0			CO5	L4	6M						
8		Why Case Grammars are used in Knowledge Representation? Explain.									
	b	How Script Structure in Conceptual Dependency Theory is used? Explain	COS	L2	6M						
		the rules in using it.									
		UNIT-V									
9		Explain Components of Expert Systems in detail.	CO6	L2	12M						
		OR									
10	a	How Probability Theory is used in Theoretical and Experimental	CO6	L2	6M						
		Probabilities.									
	b	What is Certainty Factor Theory? Why it is considered as part of	CO6	L4	6M						
	-	Expert System in AI. Explain.									
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