Reg. No:

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
B.Tech II Year II Semester Regular Examinations October-2022
FUNDAMENTALS OF ARTIFICIAL INTELLIGENCE
CSE(Artificial Intelligence and Machine Learning)

Time: 3 hours   Max. Marks: 60

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

UNIT-I

1		Discuss in detail about the Foundations of Artificial Intelligence.	L2	12M
		OR		
2	a	What are the languages that support AI over a period of time? Explain.	L2	6M
	b	How AI is transformed over the years? What are the languages supported by it.	L1	6M

UNIT-II

3	a	What are the general steps in Problem Solving? Explain in detail why it is used in Artificial Intelligence.	L4	6M
	b	Explain in detail about the Process in Control Strategies.	L2	6M
		OR		
4	a	Write a short note on Constraint Satisfaction Problem with an example.	L1	6M
	b	How Game playing strategies helps to improve effectiveness in search?	L2	6M

UNIT-III

5		How representation facts in Propositional Logic are done? Explain.	L2	12M
		OR		
6	a	Write the algorithm of "Conversion to Clause Form" and explain.	L1	6M
	b	What is unit-preference-strategy and why it complements predicate logic.	L4	6M

UNIT-IV

7		Explain in detail about Extended Semantic Networks for KR with example.	L2	12M
		OR		
8	a	List the set of primitives and conceptual tenses used in Conceptual Dependency.	L1	6M
	b	List the ways in which classes are related to each other in frames, with suitable example.	L1	6M

UNIT-V

9	a	List out the Benefits of Expert Systems.	L1	6M
	b	Discuss about hybrid expert system in detail.	L2	6M
		OR		
10	a	How Probability Theory is used in Theoretical and Experimental Probabilities.	L2	6M
	b	What is Certainty Factor Theory? Why it is considered as part of Expert System in AI. Explain.	L4	6M

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