

Code No: R20A0561

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

II B.Tech II Semester Supplementary Examinations, June 2024**Artificial Intelligence****(CSE-AIML & B.Tech-AIDS)**

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Time: 3 hours**Max. Marks: 70**

Note: This question paper Consists of 5 Sections. Answer **FIVE** Questions, Choosing **ONE** Question from each SECTION and each Question carries 14 marks.

			BCLL	CO(s)	Marks
SECTION-I					
1	A	What do you mean by Constraint Satisfaction?	L1	CO-I	[7M]
	B	List down the characteristics of intelligent agent.	L2	CO-I	[7M]
OR					
2	A	What is Heuristic Search and Heuristic Function?	L2	CO-I	[7M]
	B	What are the advantages of Depth First Search?	L1	CO-I	[7M]
SECTION-II					
3	A	How Knowledge is represented?	L2	CO-II	[6 M]
	B	Specify the syntax of First-order logic	L4	CO-II	[8 M]
OR					
4	A	What is propositional logic?	L3	CO-II	[3M]
	B	Explain Alpha-Beta Pruning?	L6	CO-II	[11M]
SECTION-III					
5	A	Explain the frame-based knowledge representation?	L5	CO-III	[7M]
	B	Why does uncertainty arise?	L2	CO-III	[7M]
OR					
6	A	Discuss about Bayesian Theory and Bayesian Network	L6	CO-III	[7M]
	B	Compare production-based system with frame-based system.	L4	CO-III	[7M]
SECTION-IV					
7	A	Explain types of learning with examples?	L4	CO-IV	[7M]
	B	What is ID3? Write the drawback of ID3.	L5	CO-IV	[7M]
OR					
8	A	Write short notes on the Learning by Parameter Adjustment	L4	CO-IV	[7M]
	B	Explain learning by taking advice, learning in problem solving and learning from examples.	L3	CO-IV	[7M]
SECTION-V					
9	A	Write the applications of expert systems.	L2	CO-V	[7M]
	B	Explain the architecture of an expert system in detail with a neat diagram and an example.	L4	CO-V	[7M]
OR					
10	A	List out the problem areas addressed by Expert systems	L3	CO-V	[4M]
	B	Write notes on Meta Knowledge and Heuristics in Knowledge Acquisition	L5	CO-V	[10M]
