O.P.Code: 20CS0522

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H.T.No.

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

B.Tech III Year II Semester Regular Examinations August-2023

ARTIFICIAL INTELLIGENCE

(Computer Science and Engineering)

Time: 3 Hours		Max. Marks: 60							
	(Answer all Five Units $5 \times 12 = 60$ Marks)								
	UNIT-I								
1	Explain in details about the four approaches that are followed in AI	CO1	L2	12M					
	OR								
2	a What is planning in AI? Explain the Basic components of a planning system in AI.	CO1	L1	6M					
	b Explain in detail of four major types of uncertainties in DecisionMaking Problems.	CO1	L2	6M					
	UNIT-II								
3	a Illustrate the concept of Problem Solving Agent with an example.	CO ₂	L3	6M					
	b Design and Solve Vacuum Cleaner toy problem in AI.	CO ₂	L6	6M					
	OR								
4	Discuss about	CO ₄	L2	12M					
	i) Greedy best-first search. ii) A* search								
	UNIT-III								
5	a Explain resolution in predicate logic with suitable example	CO ₃	L2	6M					
	b Discuss Wumpus World Problem based on a knowledge-based agent.	CO ₃	L2	6M					
	OR								
6	Discuss the Bayes rule inference with an example.	CO ₃	L5	12M					
	UNIT-IV								
7	a What are the various of Feedback Analysis in Learning	CO5	L1	6M					
	b Analyze the Linear Regression in Supervised Learning.	CO ₅	L4	6M					
	OR								
8	Explain about Evaluating And Choosing The Best Hypothesis.	CO ₅	L2	12M					
	UNIT-V								
9	a List out the Benefits of Expert Systems.	CO5	L1	6M					
	b Discuss about hybrid expert system in detail	CO5	L2	6M					
	OR			01,1					
10	a Describe the phases of developing an Expert system.	CO6	L2	6M					
	b Discuss Expert systems design examples.	CO6	L2	6M					
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