

	UNIT-I
	Define AI and explain different task domains of AI
	Explain about different AI problem characteristics.
	Explain about water jug problem and suggest any suitable solution to water jug problem. Does water jug problem have unique solution? Justify your answer.
	Explain about state space representation of the AI problem
	Discuss about production system characteristics
	UNIT--II
	Differentiate BFS and DFS
	Apply Simple hill climbing to solve 8-puzzle problem.
	Apply nearest neighbor heuristic algorithm to solve TSP.
	Apply A* algorithm to solve 8-puzzle problem
	Explain the Constraint satisfaction algorithm. Apply Constraint satisfaction algorithm to solve cryptarithmic problem: <pre style="margin-left: 40px;"> SEND + MORE ----- MONEY.</pre>
	UNIT-III
	Explain Unification algorithm. Apply unification algorithm to the following : a. Father(john, X), Mother(john, Y) b. Friends (Marcus, Caesar, john) and Friends(x, y, z)
	Explain about Clause conversion algorithm. Apply the Clause conversion algorithm to convert the following facts : a. John likes all kind of food. b. Apple and peanut are food.
	Explain about Resolution algorithm in propositional logic