(3 Ho	urs)	[Total Marks	: 80
Note:	ii)	Question no. 1 is compulsory Attempt any three from remaining Assume necessary data	
1	(a)	Explain the Learning Agent with suitable block diagram.	5
	(b)	Give difference between Informed Search and Uninformed search Algorithms.	5
	(c)	Give PEAS and state space description for "Automobile Driver Agent"	5
	(d)	Explain different quantifiers with example.	5
2	(a)	Explain various properties of task environment with suitable examples	10
.1	(b)	What is Game Playing Algorithm? Draw a game tree for Tic-Tac-Toe problem.	10
3	(a)	Illustrate forward-chaining and backward-chaining algorithm with suitable example.	10
	(b)	Explain Hill Climbing Algorithm and problems that occurs in hill climbing algorithm?	10
46	(a)	What do you mean by Resolution? Also discuss the steps in Resolution.	10
En ext	(b)	Consider problem of changing a flat tire. The goal is to have a good spare tire properly mounted on to the car's axle, where the initial state has a flat tire on the axle and a good spare tire in the trunk. Give the ADL description for the problem and also discuss the solution	10
5	(a)	Explain Partial-order planning with suitable example.	10
433	(b)	Define Belief Network. Describe the steps of constructing belief network with an example.	10
6	1	Write short notes on any Two of following:	
Â	(a)	Explain different applications of AI in Healthcare, Retail and Banking.	10
1000	(b)	Alpha Beta Pruning	10
	(c)	Wumpus world Environment	10
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