M.Tech I Semester Examinations March/April 2011 ARTIFICIAL INTELLIGENCE (DIGITAL SYSTEMS AND COMPUTER ELECTRONICS) Fime: 3hours Max.Marks:60		
Answer any five questions All questions carry equal marks		
. a) b)	Explain why problem formulation must follow goal formulation. Give a brief account on structure of agents.	[12]
. a) b)	Define state – space. Clearly bring out the difference between iterative deepening depth and bi – director search.	first search
c)	Write short notes on memory bounded heuristic function.	[12]
. a) b)	Explain CSP with an example. Write short notes on Hill climbing.	[12]
. a) b)	Define alpha – Beta pruning. Explain the same with an example. Write short notes on optimal decisions in multiplayer games.	[12]
. a) b)	Briefly explain wumpus - world environment. Write short notes on resolution patterns in propositional logic.	[12]
. a) b)	Write the partial planning algorithm. Write shot notes on backward state space search.	[12]
	Explain learning decision trees with an example.	[12]
	Write short notes on:- i) Unification ii) EM algorithm	[12]