P.CODE:37336





JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD IV.B.TECH - I SEMESTER REGULAR EXAMINATIONS NOV/DEC, 2009 ARTIFICIAL INTELLIGENCE (Common to CSE, ECC)

Ti	me: 3hours Max.Marks:80)
Answer any FIVE questions All questions carry equal marks		
1.	Devise an AO* algorithm and explain how it is not suitable for searching in And-OR graphs [16]]
2.	a) Differentiate between forward and backward reasoningb) Explain about A* algorithm in detail [8+8]
3.	a) Justify the need for computable functions and predicates in logic.b) What is the significance of knowledge representation? Give differences between database and knowledge base [8+8]]
4.	Transform the following to conceptual dependencies: I gave pen to my friend Rama eat ice cream I borrowed book from your friend While going home, I saw a frog [16]]
5.	 Write a short notes on the following a) Minimalist reasoning b) Non – dependency directed back tracking c) Abduction d) Non – Monotonic reasoning [16]]
6.	a) Explain hierarchial planning with relevant examples.b) Explain Alpha – Beta Pruning [8+8]]
7.	What are the prominent features of an expert system and describe their features in detai [16]	1.
8.	Write short notes on the following:-	
	 a) Route learning b) Induction c) Epistemology d) Decision Trees. [16] 	1
