99600

B.Tech. (COMPUTER SCIENCE AND **ENGINEERING)**

Term-End Examination June, 2013

	BICS-021: AKTIFICIAL INTELLIGENCE					
Time: 3 hours Maximum						
Not		ttempt any seven questions. All questions carry o aarks.	гдиа			
1.	(a)	Discuss the performance of AO* algorithm and also discuss about various types of control strategies.	5			
	(b)	What is heuristic search? Write heuristic function for travelling salesman problem with the help of suitable example.	5			
2.	(a)	Explain intelligence and artificial intelligence systems with the help of suitable examples.	5			
	(b)	Explain with the help of example, how does conventional computing differ from the intelligence computing.	5			
3.	(a)	What are the various types of reasoning methods? Also discuss Baye's theorem.	5			

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		(i) A drunker is enemy of himself.	
		(ii) God helps those who help themselves.	
		(iii) Jack and Jill went up the hill.	
4.	(a)	Give the conceptual dependency structure	5
		to parse the following sentence.	
		"John wanted mary to go to the store".	
	(b)	Write the algorithm of steepest ascent hill	5
		climbing. What are the drawbacks of it?	
		How to overcome from the drawbacks?	
5.	(a)	What is knowledge representation? With	5
	()	the help of suitable example explain the	
		issues in representation of knowledge with	
		the help of suitable example.	
	(b)	Construct semantic net representation of the	5
		following sentence	
		"Mary gave the green flowered vase to her	
		favourite cousin"	
6.	Cons	struct a script for going to a movie from the	10
		point of the movie goer (regular visitor)	ΙU
		r vi mo ne goei (regular visitor)	
7.	Wha	at are the different game playing	10
		niques? Explain minimax search procedure	
	with	a neat illustration.	

(b) Represent following sentences using 5

symbolic logic -

(a) Define understanding. List out the major 5 factors that makes understanding hard.
(b) Briefly explain various steps in natural 5

language understanding process.

- 9. Explain in detail the components of planning with an example and also discuss various types of planning techniques.
- 10. Write short notes on following (any two): 10
 - (a) Neural Networks
 - (b) Monotonic and Non monotonic reasoning
 - (c) Explanation based learning.