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## CS/IT-702

## B. E. (Seventh Semester) EXAMINATION, June, 2007 (Common for CS & IT Engg.)

## ARTIFICIAL INTELLIGENCE

Note: Attempt any five questions. Answer should be laconic.

- (a) Explain your own critieria for Computer Software to be consider intelligent.
  - (b) Differentiate between Breadth First Search and Depth First Search. 7
  - (c) What is production rule? Discuss.
- (a) Explain how to branch and bound techniques could be use to find the shortest solution to a water jug problem.
  - (b) Write down the A\* algorithm with its merits and demerits.
- 3. Consider the following sentences:
  - (i) Krishna like all kind of food
  - (ii) Apples are food
  - (iii) Bread is food
  - (iv) Anything anyone eat and is not killed by is food

	(4)	Ravi eats peanuts and is sun anve	
	(vi)	Chetan cat every thing Ravi eats	
	(a)	Translate these sentences into formula in predicate	
		logic.	
	(b)	Prove that Krishna likes peanuts using resolution. 10	
	follo	w and explain the conceptual dependency of the wing:	
Mo	(a)	John pushed the cart Ray Solutions	
Yaji F	(b)	The plants grew Coaching & Software	
100	(c)	John is ateacher  C-102, indrapuri. C-Sector BHOPAL-22, RAY-INDIA.COM 9300717575, 9300930012	
	(e)	While going home, I saw a frog	
5.	(a)	Construct partitioned semantic net representation for	
		the following:	
		(i) Every batter hit a ball	
		(ii) Amit gave the book to Aruna	
	(b)	Explain Hill climbing algorithm. 10	
6.	(a)	How the minimax and alpha beta pruning are done on	
1		tree ? Explain with example.	
	(b)	What is neural network ? Write its various applications.	
7.	Diff	erentiate between the following: 20	
		Language understanding and language generation	
		Forward and Backward Reasoning	
		Supervised learning and unsupervised learning.	
	1-7	oupervised tearning and unsupervised rearring.	
8.	Wri	te notes on any three of the following; 20	)
	(a)	Unification algorithm (d) Fuzzy logic	
	(b)	Baye's theorem (c) MYCIN	

(a) Done note managed and is still alies