S.	14 -	
Coc	le No:	9A05605/R09
		III B.Tech. II Semester Regular & Supplementary Examinations ${f Set}-{f J}$
		April/May -2013
ARTIFICIAL INTELLIGENCE (Computer Science and Engineering)		
		Answer any FIVE Questions
		All Questions carry equal marks
1.	(a)	What properties an AI technique ought to process? Explain.
	(b)	Discuss production system characteristics.
2.	Prov GRA	ve that uniform-cost search and breadth first search with constant step costs are optimal when used with the APH_SEARCH algorithm.
3.	Des	cribe efficient algorithms for propositional inference based on model checking.
4.	(a)	Discuss the inference rules for quantifiers.
	(b)	Explain the models of first order logic.
5.	Wha	at is description logic? Explain the language of "CLASSIC".
6.	(a)	Explain about degree of belief and probability theory.
	(b)	Explain the concept of independence and show that the three forms of independence are equivalent.
		(
7.	(a)	Explain the terms pruning and cross-validation.
	(b)	Explain ensemble learning.
8.	(a)	Name different fuzzy set operations. Explain them.
	(b)	Explain sectional view of a fuzzy room cooler.