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	Code No: 117AN		R13	
Ro	JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERS B. Tech IV Year I Semester Examinations, November/I ARTIFICIAL INTELLIGENCE (Computer Science and Engineering) Time: 3 Hours	December - 201		
	Note: This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer Part B consists of 5 Units. Answer any one full question from carries 10 marks and may have a, b, c as sub questions.			
Ro	RO RO RART-ARO	Ro	(25 Marks)	
Ro	1.a) Define State Space Search. b) Why do we go for AI to solve a problem rather than convention c) Define semantic nets. d) Describe refutation in propositional logic. e) What are the uses of certainity factors? f) List down the applications of expert system. g) Define supervised learning. h) Discuss about recurrent networks. i) Discuss the role of semantic analysis. j) Discuss about case grammars.	nal methods?	[2] [3] [2] [3] [2] [3] [2] [3] [2] [3]	
Ro	RO RO RART-BRO	Ro	(50 Marks)	
	2. Explain how to define a problem as a state space search, with a suitable example. [10] OR			
	3. Explain A* algorithm with a suitable example. State the limita	ntions in the alg		
Ro	4. Consider the following facts and represent them in predicate for F1. There are 500 employees in ABC Company. F2. Employees earning more than 5000 pay tax. F3. Managers earns Rs. 10,000 F4. John is manager in ABC Company. Converts the facts in predicate form to clauses and then prov		[10]	
Ro	tax". Give an example to explain the various approaches used for kn	Da		
	6. Explain the use of expert system shells. What are the diexplanation) to make the expert system effective? OR	fferent ways	(support for [10]	
Ro	7. Give an example to explain the concept of Bayesian belief uncertainity.	network-for mo	easuring the	X

