Code	No. 127AN JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABA JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABA 2018		/
B. Tech IV Year I Semester Examinations, November/December - 2018 ARTIFICIAL INTELLIGENCE			
Timo	(Computer Science and Engineering) 3 Hours Max. Marks: 7	15	
	This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Part B consists of 5 Units. Answer any one full question from ea Each question carries 10 marks and may have a, b, c as sub questions.	Part A.	/
PART- A (25 Marks)			
1.a) b) c)	What are the functionalities of an agent system? How can we avoid ridge and plateau in hill climbing? What are limitations in using Propositional Logic to represent the knowled	[2] [3] ge/base? [2]	/
d)	Represent the following sentence in Predicate form: "All the children like	e sweet". [3]	
e) f) g) h) i) j)	Compare Expert system with Traditional system. State and define conditional probability. Define supervised learning and unsupervised learning. Differentiate ANN with Biological NN. What is semantic web? What is the importance of Parser?	[2] [3] [2] [3] [2] [3] [3]	/
PART-B			
2.a) b) 3.	What are sub-areas of AI? Explain a simple approach to play Tic-Tac-Toe problem. OR Discuss about different Heuristic Search Techniques.	0 Marks) [5+5] [10]	/
. *	What are sub-areas of AI? Explain a simple approach to play Tic-Tac-Toe problem. OR Discuss about different Heuristic Search Techniques. What is Resolution? Explain resolution in propositional logic with illustration.	[5+5]	/
△ (3. b)	What are sub-areas of AI? Explain a simple approach to play Tic-Tac-Toe problem OR Discuss about different Heuristic Search Techniques. What is Resolution? Explain resolution in propositional logic with illustration. OR Differentiate between Procedural and Declarative Knowledge. Describe about Forward Chaining System Explain Rule based system Architecture with neat diagram.	[5+\$]	/
b) 3. 4. 5.a)	What are sub-areas of AI? Explain a simple approach to play Tic-Tac-Toe problem. OR Discuss about different Heuristic Search Techniques. What is Resolution? Explain resolution in propositional logic with illustration. OR Differentiate between Procedural and Declarative Knowledge. Describe about Forward Chaining System.	[5+\$]	/
5.a) b)	What are sub-areas of AI? Explain a simple approach to play Tic-Tac-Toe problem. OR Discuss about different Heuristic Search Techniques. What is Resolution? Explain resolution in propositional logic with illustration. OR Differentiate between Procedural and Declarative Knowledge. Describe about Forward Chaining System. Explain Rule based system Architecture with neat diagram. OR Describe the following:	[5+5] [10] [10] [5+5] [10]	
5.a) 5.a) b) 7.	What are sub-areas of A1? Explain a simple approach to play Tic-Tac-Toe problem. OR Discuss about different Heuristic Search Techniques. What is Resolution? Explain resolution in propositional logic with illustration. OR Differentiate between Procedural and Declarative Knowledge. Describe about Forward Chaining System. Explain Rule based system Architecture with neat diagram. OR Describe the following: a) Dempster-Shafer Theory b) Certainty Factor Theory. Explain Inductive Learning and Deductive Learning with example. OR Explain design issues of Artificial Neural Networks.	[5+5] [10] [10] [5+5] [10] [5+5]	