Chakenya Bharathi Institute of Technology (Autonomaus) Department of Information Technology 11.12. HI/IV (L.T.), 11-Semester, t-Mid Examinations, Feb-2018 Sub: Computation Intelligence

piace: 06-02-2018

11me:2.00p.m. to 3:00 p.m.

Note: Answer all questions in Part-A and any two from Part - 8.

Part - A (3X2-6 marks)

A. List the Sub areas of Al.	IM (COI)
2. Write about MINIMAX procedure.	2MICO11
3 Write a short notes on resolution Methods in Logic Programming	2M [CO2]
4. What are the different approaches to Knowledge representation?	IM [CO2]

Part - B (2X7=14 marks)

5. A) Explain about A* algorithm.

5M[CO1]

Max. Marks: 20

B) How is A* algorithm is admissible?

2M[CO1]

6. A) Using the below rules and Facts, Check whether the ground goal ←grandmother('Mary', 'Mike') is true.

Rules:

 $/\!\!/ X$ is a grandmother of Y if X is mother of Z and Z is mother or father of Y grandmother(X,Y) \leftarrow mother(X,Z), parent(Z,Y) parent(X,Y) \leftarrow father(X,Y) parent(X,Y) \leftarrow mother(X,Y)

Facts:

mother('Mary', 'John') \leftarrow mother('Tina', 'Kittu') \leftarrow mother('Kittu', 'Mita') \leftarrow mother('John', 'Mike') \leftarrow

4M(CO2) 3M(CO2)

B) Write a short notes on Extended Sematic network.

Solve the following puzzle by assigning numeral(0-9) in such a way that each letter is assigned unique digit which satisfy the following addition.

4M [CO1]

TWO TWO FOUR

Show that a set S={-(AVB),(B→C), AVC} is consistent.

3MECON

Chaitanya Bharathi Institute of Technology Department of Information Technology B.E III Year II-Semester II-Mid Examinations, 2017-18 Subject: Computational Intelligence

Date: 04.03.2018 Time: 2.00 to 3.00 p.m. Max.Marks: 28

NOTE: Answer all	7.20	Caller & Control of the S	and the second second	CHEST STATE OF STATE	March & William Printer Commit
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Transfer of the Control of the Contr	PART-A What are the different phases in Expen System?	[CO3][1M]
2.	Define Baye's theorem.	[C03][1M]
3.	State about Rote learning.	[CO4][1M]
4.	What are the different Design issues of Artificial Neural	[CO5][1M]
	Networks?	
5.	What are the different cases in Case grammars?	[C06][1M]
	What are different Sentence Analysis phases in	[CO6][IM]
	Natural Language Processing?	
	PART-B	[2X7=14M]
7.	(a) write a short notes on semantic Web.	[CO6][3M]
	(b) For the following grammar take any valid sentence and Parse using Chart Parser. <s> -> <np> <vp> <np> -> <det> <noun> <np> -> <adj> <noun> <np> -> <adj> <noun> <vp> -> <verb> <vp> -> <verb></verb></vp></verb></vp></noun></adj></np></noun></adj></np></noun></det></np></vp></np></s>	[CO6][4M]
8.	(a) Briefly explain Expert system architecture.(b) Write about Components of a Learning System. What Are different types of Learnings?	[CO3][4M] [CO4][3M]
9.	(a) Explain about Certainty Factor theory.(b) Write a short notes on Hopfield Network.	[CO3][4M] [CO5][3M]

Paper set by: . Ms .KNVS Sridevi & Ms.K.Swathi, IT Dept.