	M.E	/M.Tech.,	II Semester	
	E	Examination,	June 2013	
		Soft Com	puting	
		Time: Three	e Hours	
F	RGPVONLIN	E.COM	Maximum Marks: 70	
		parts) from ead.	10. Attempt one question ch unit. Assume missing data,	
1 5		Unit -		
1. a)	Mention differentiation.	ferent types of	. What are its characteristics? production system with brief	
b)	•	lowing blocks	*	
,	Solve the following blocks world problem using best first search methods. Define the global heuristic function used:			
		Α		
	В	В		
	Α	C		
_	<u>D</u> _ C	D	_	
	Start state	Goal State		
		OR		
2. a)	Write AO* algorithm. Explain the terms SOLVED and FUTILITY in this algorithm.			
b)	Explain depth-first search technique along with its algorithm. What are the advantages and drawback of depth-first search?			
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Roll No

Unit - II

	<u> </u>	
3. a)	With suitable diagram, derive the weight update equation in back propagation algorithm for a multilayer fee forward neural network and explain the effect of learning rate, and momentum terms or weight update equations	ea ng
b)	List and explain the various activation functions. Al explain their suitability with respect to applications.	so 6
	OR	
	Explain the Back propagation network with architectu	re,
4. a)	algorithm and an example.	7
1-1	Write history of artificial neural system development	. 4
b)	Explain the three layers of perceptron?	3
c)	Explain the three layers of perception.	
	Unit - III	
	the first started of confirmation	in
5. a)	Hopfield network. Explain recall algorithm.	7
b)		of 7
	OR	
6 (1)	Explain how Bidirectional memory can be used as het	ero
6. a)	associative memory.	5
b)	- Country of country propagation netw	ork
0)	and their training algorithm.	5
c)	What is hamming net? Explain.	4
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	Unit - IV	
7. a) What do you understand by crisp relation. Mention	the
	different operations performed on crisp relation.	6
b		8
		PTO

OR

8. a) What is fuzzy inference system(FIS)? List the methods of FIS.

b) Describe multiobjective and multiattribute decision making.

Unit - V

- 9. a) Explain the Generational cycle rank with an example. 8
 - Architecture
 - Algorithm
 - Example
 - b) Explain convergence criteria and applications of genetic algorithm.

OR

- 10. a) Discuss the following:
 - i) Permutation encoding
 - ii) Value encoding
 - iii) Tree encoding.
 - b) What is cross over? Explain different types of cross over

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