

## www.FirstRanker.com

www.FirstRanker.com

(\$35)-848

Roll Tota		Total No. of Pages : o. of Questions : 08	01
	М.	Tech. ECE (Wireless Communication) (2018 Bach) (Sem2)  SOFT COMPUTING TECHNIQUES  Subject Code: MTWC-104-18  M.Code: 76068	
Time	: 3	Hrs. Max. Marks:	60
1.Atte	empt	CTIONS TO CANDIDATES : t any FIVE questions out of EIGHT questions. uestion carries TWELVE marks.	
Q.1	(a)	Define soft computing and explain the importance of soft computing in the field of machine learning.	f [6
	(b)	List various learning schemes and explain any one of them with example.	[6
Q.2	(a)	What is pattern classification? Explain one of the algorithms for pattern classificat in detail.	ion [6
	(b)	Draw and explain McCulloch-Pitts model of neural network with its limitations.	[6
Q.3	(a)	Differentiate perceptron and Hebbian learning algorithms with an appropriate example.	[6
	(b)	Draw and explain ADALINE network with its application?	[6
Q.4		nat is travelling sales man problem? List the possible solutions for this task and exple of the best algorithms with suitable example in detail.	lain [12
Q.5	(a)	Draw and explain recurrent neural network with its real life application.	[6
	(b)	What is the significance of adaptive resonance theory neural network? Draw and explain ART1 neural network with suitable example.	[6
Q.6	(a)	What are the differences between derivative free and derivative based optimization algorithms?	n [6
	(b)	What is fuzzification processes? Explain one of the popular fuzzification processes detail with suitable example.	s in [6]
Q.7	(a)	Discuss the importance of hybrid soft computing techniques in machine learning.	[6
	(b)	Explain GA based BPNN hybrid Softcomputing scheme with an example.	[6
Q.8	(a)	Differentiate between classical and Fuzzy sets. Explain two important operations of classical and fuzzy sets with example.	on [6
	(b)	Explain multiobjective optimization using genetic algorithm with an example.	[6
NOT	E:1	Disclosure of Identity by writing Mobile No. or Making of passing request on a page of Answer Sheet will lead to UMC against the Student.	ıny

1 | M-76068