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Registration No		ation No :														
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9 th Semester Regular Examination 2019-20 DATA SCIENCE BRANCH : M.Sc.I(MC) Time : 3 Hours Max Marks : 70 Q.CODE : HR267 Answer Question No.1 which is compulsory and any FIVE from the res The figures in the right hand margin indicate marks.																
Q1	a) b) c) d) e) f) g) h) i)	Answer the following questions: What do you mean by bagging? What is logistic regression in Data Science? What is a Random Forest? What is Lift? How it is related to Association rule? What is the difference between Supervised and Unsupervised Learning? What do you mean by Bias? What is a Back Propagation Network? What is subset selection and why it is essential? In k-means algorithm how the centers of the clusters are initialized? What is ridge regression and Lasso regression?												(2	2 x 10)	
Q2	a) b)	validation, Explain.								ı cross	;	(5) (5)				
Q3	a) b)	Discussed the different components of Artificial Neural Networks.												(5) (5)		
Q4	a) b)	Describe k-ne Explain percep														(5) (5)
Q5	a) b)	Write a short r "The Higher the statement with is the dependent	he Bias n a suit	s the able	Low diagr	er is										(5) (5)
Ω6		Describe the N	/lcNem	ar's t	est a	nd k-	fold o	ross	valida	ated r	aired	t-tes	t to co	ompare	ż	(10)

whether two given learning algorithms construct classifiers that have the same

What is SVM? Mention the role of SVM. Explain the linear classifier related to

Q8 Write short answer on any TWO:

(5 x 2)

(10)

- a) Write a short note on following data sets
 - (i) California housing

expected error rate.

(ii) New Zealand fish

b) Cluster Analysis

SVM.

c) Bias-Variance Tradeoff

Q7