Hall Ticket Number:										

## IV/IV B.Tech (Supplementary) DEGREE EXAMINATION

Novem		Computer Science & Engineering						
	Semester Data Analy	U						
	ree Hours Maximum: 60 N							
Answer ( Answer (	Intere HoursMaximum: 60 NQuestion No.1 compulsorily.(1X12 = 12 M)ONE question from each unit.(4X12=48 M)Inswer all questions(1X12=12 M)Describe the significance of t-test.(1X12=12 M)Write the R code for two sample t-testDefine Learning?Define Big Data?Explain Hadoop ecosystems?Define Degree of freedom?Significance of Secondary Name Node in HDFSWrite applications of Map ReduceWaximum: 60 N	arks) arks)						
i) j) k) ])	What Hadoop eco system contains Define YARN Define Hadoop Common Explain the functionalities of Map Reduce.							
	UNIT I							
2.	Explain the characteristics of Big Data	12M						
3.	(OR) What is Hypothesis Testing? Explain the following terms with examples a)Null Hypothesis b)Alternative Hypothesis c) Degrees of Freedom d) P value e) How to calculate t test value? f)Type- 1 error & Type-2 error	12M						
	UNIT II							
4. a) b)	What is Null Hypothesis and Alternative Hypothesis with T-Test? How to calculate t test value? How to calculate t test value? (OR)	6M 6M						
5. a) b)	Write the R code for cluster analysis on iris data set using K-means algorithm iris dataset(Sepal Length, Sepal Width, Petal Length, Petal Width, Species). Write R code for Hierarchical clustering using single linkage method	6M 6M						
	UNIT III							
6. a) b)	Explain HDFS concepts in detail Write the R code for cluster analysis on Lung Capacity data set using K-medoids algorithm. Lung	6M						
	Capacity data set (Gender, Height, Smoker, Exercise, Age, Lung Capacity)	6M						
7. a) b)	(OR) Explain HDFS concepts in detail Explain how YARN runs an application on HDFS?	6M 6M						
8.	UNIT IV Explain how HDFS runs a Map Reduce job?	12M						
9. a) b)	(OR) Explain the anatomy of how data read from HDFS Explain how YARN runs an application on HDFS?	6M 6M						