15CS82

Eighth Semester B.E. Degree Examination, Dec.2023/Jan.2024

Big Data Analytics

Max. Marks: 80

Time: 3 hrs.		Shrs.	Max. Marks: 80	
Note: Answer any FIVE full questions, choosing ONE full question from each module.				
Module-1				
1	a. What are the various systems roles in an HDFS development? Explain with a neat dia (08		eat diagram. (08 Marks)	
	b.	Explain with a neat diagram HDFS Block replication.	(08 Marks)	
		OR		
2	a.	Write the code for simple mapper script and simple reducer script.	(08 Marks)	
_	b .	With a neat diagram explain Apache Hadoop parallel mapReduce data flow.	(08 Marks)	
		Module-2		
3	a.	Explain the structure of Yarn Application.	(08 Marks)	
	b.	With a neat diagram, explain Yarn Application Framework.	(08 Marks	
		OR		
4	a.	Explain Apache Squoop Import and Export method.	(08 Marks)	
	b.	Explain Apache Ambasi service view of a Hadoop Chuster.	(08 Marks)	
		Module-3		
5	a.	Write any four Business Intelligence Application for various sectors.	(08 Marks)	
	b.	Explain the star schema design of Data Warehousing with an example.	(06 Marks)	
	C.	What is Confusion Matrix?	(02 Marks)	
		OR		
6	a.	Explain CRISP-DM cycle with a neat diagram.	(08 Marks)	
	b.	What do you understand by the term Data Visualization? How is it important	t in Big data	
		Analytics?	(05 Marks)	
	c.	Differentiate between Data Mining and Data Warehousing.	(03 Marks)	
			2	

Module-4

Describe the advantages and disadvantages of using Regression Models. (38 Marks) Explain Decision tree and write the algorithm to construct decision tree. (98 Marks

Explain design principles of Artificial Neural Network. (08 Marks) (04 Marks) Explain Regression. List key steps of Regression. b. (04 Marks Explain Apriori Algorithms.

Module-5

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Explain with a neat diagram text mining process. (08 Marks) a. What are the advantages and disadvantages of Naïve-Baye's algorithm? (04 Marks) **b**. Explain with a neat diagram SVM model. (04 Marks)

Explain with a neat diagram web usage mining architecture. (08 Marks) 10 List and explain the applications of social network analysis. (08 Marks)

2. Any revealing of identification, appeal to evaluator and for equations written eg, 42+8 = 50, will be treated as maipractice. Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines or, the remaining blank pages.