SREENIVASA INSTITUTE OF TECHNOGY AND MANAGEMENT STUDIES

(AUTONOMOUS) Murukambattu, Chittoor

MCA DEPARTMENT



QUESTION BANK

For 16MCA312 -Big Data Analytics Regulation – 2018 Academic Year 2018 – 19

Prepared by

Mrs. R. Padmaja, Assistant Professor



SUBJECT NAME: Big Data Analytics

ISREENIVASA INSTITUTE OF TECHNOLOGY AND MANAGEMENT STUDIES. (AUTONOMOUS) MCA DEPARTMENT

<u>QUESTION BANK</u>

SUBJECT CODE: 16MCA312

YEAR &SEM : III & I Academic Year : 2018-19

UNIT I - Understanding Big Data

Datasets, Data Analysis, Data Analytics-Descriptive Analysis, Diagnostics Analytics, Predictive Analytics, Prescriptive Analytics, Big Data Characteristics – volume, velocity, variety, veracity, value, Different Types of Data – Structured Data, Unstructured Data, Semi-Structured Data

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PART -A				
Q.No.	Questions	Blooms Taxonomy		
		Level		
1.	Define Dataset	Understanding		
2.	Distinguish between Data Analysis and Data Analytics	Analyzing		
3.	Mention Different types of Data Analytics	Remembering		
4.	Explain Descriptive Analytics with an example	Understanding		
5.	Distinguish between Predictive and Prescriptive Analytics	Analyzing		
6.	Define Big Data	Understanding		
7.	List out the Big Data Characteristics	Remembering		
8.	Mention different types of Data	Remembering		
9.	Mention some of Big Data Examples	Remembering		
PART -B				
1.	Explain Different types of Data Analytics with examples	Understanding		
2.	What is BigData and Discuss different characteristics of Big Data	Understanding		
3.	Illustrate different types of Data	Applying		
4.	Differentiate Descriptive and Diagnostics analytics with example	Analyzing		
5.	Differentiate Structured, unstructured and semi structured data in detail	Analyzing		
6.	Explain Dataset, Data Analysis and Data analytics in detail	Understanding		

UNIT II - Hadoop Basics

Brief history of hadoop, Apache hadoop and the hadoop ecosystem. A weather dataset, analyzing the data with unix tools, analyzing the data with hadoop, Understanding different Hadoop modes, understanding Hadoop Features-Understanding HDFS, Understanding MapReduce, Learning the HDFS and Mapreduce Architecture-Understanding the HDFS architecture, Understanding the MapReduce Architecture, Understanding the HDFS and MapReduce architecture by plot.

DADED A				
PART -A				
1.	What is Hadoop	Understanding		
2.	List out various Hadoop ecosystem	Remembering		
3.	Mention different Hadoop Modes	Remembering		
4.	List out the Hadoop Features	Remembering		
5.	Mention two important components of Hadoop	Remembering		
6.	What is HDFS	Understanding		
7.	What is MapReduce	Understanding		
PART -B				
1.	Write about Brief history of Hadoop	Understanding		
2.	Explain Apache Hadoop and the Hadoop Ecosystem	Understanding		
3.	List and explain various Features of Hadoop	Remembering		
4.	Differentiate how to analyze the weather dataset in unix and hadoop	Analyzing		
5.	Explain HDFS and Map Reduce in detail	Understanding		
6.	Write about HDFS and Map Reduce Architecture	Understanding		



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3.6.1	TT 1 . 11				
Modes	Understanding				
apReduce Prograi	ns				
understanding the basics of MapReduce, Introducing Hadoop MapReduce-Listing Hadoop					
	o, Understanding the				
luce example-Unde	erstanding the steps to				
	Understanding				
	Remembering				
	Remembering				
	Remembering				
	Remembering				
nario	Remembering				
	Remembering				
	Understanding				
	Understanding				
	Understanding				
	Understanding				
ing stages in detail	Understanding				
	Applying				
called Map Reduce	Understanding				
Analytics					
	oblem, Designing data				
	Understanding data analytics problems - Exploring web pages categorization - Identifying				
the problem, Designing data requirement, Preprocessing data, Performing analytics over data, Visualizing data.					
	g analytics over data,				
	g analytics over data,				
	Remembering				
cycle	Remembering Understanding				
	Remembering Understanding Understanding				
	Remembering Understanding Understanding Remembering				
	Remembering Understanding Understanding Remembering Understanding				
	Remembering Understanding Understanding Remembering Understanding Understanding				
cycle	Remembering Understanding Understanding Remembering Understanding				
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cycle ement	Remembering Understanding Understanding Remembering Understanding Understanding Understanding Understanding Understanding Understanding Understanding Understanding				
cycle ement detail	Remembering Understanding Understanding Remembering Understanding Understanding Understanding Understanding Understanding Understanding Understanding Understanding Understanding				
	ing stages in detail called Map Reduce A Analytics Identifying the proalytics over datag web pages category				



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YEAR &SEM : III & I Academic Year : 2018-19

YEAR	&SEM : III & 1 Academic Year	: 2018-19		
Basic Syntax, Data types, Variables, Operators, Decision Making, Loops, Functions, Vectors,				
lists, Matrices, Arrays, Data Frames, R Data Interfaces - CSV Files, Excel Files, Database, R				
charts & graphs, R statistics – Mean, Median, Mode, Linear Regression				
PART – A				
1.	What is the Purpose of R	Understanding		
2.	Mention R Data Types	Remembering		
3.	List out the R Operators	Remembering		
4.	What is R List	Understanding		
5.	List out R Statistical functions	Understanding		
6.	Write the syntax of creating an Array in R	Applying		
7.	What is Data Frame	Analyzing		
PART – B				
1.	Write about R Data types, Variables, Operators in detail	Understanding		
2.	Illustrate Decision Making Statements in R	Applying		
3.	Illustrate Looping statements in R	Applying		
4.	Write about R Vectors and R Lists	Understanding		
5.	Write about R Data Interfaces	Understanding		
6.	Discuss R Charts and R Graphs with example	Understanding		
7.	Explain R Statistical Functions in detail	Understanding		
8.	Write about R Arrays and R Data frames	Understanding		