Time:

20MCA352

Semester MCA Degree Examination, June/July 2023

Big Data Analytics

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

OC		

1	a.	What is Big data? Describe the characteristics (4vs) of Big data.	(10 Marks)
		a di contra di c	(10 Marks)
	b.	Describe the working of analytical processing model with a neat diagram.	(10 Marks)

OR

2.	а	Explain the very important steps in dealing with outliers.	(10 Marks)
_	u.	Emplant the Cut Di 1	(10 34 1)
	h	Write the different types of data sources and data elements of the Big data.	(10 Marks)

Module-2

3	a	Illustrate on how Cloud and Big Data related with each other.	(10 Marks)
2	c.	11.40	(40 B F 1)
	h	What is Crowd sourcing Analytics? Why is it needed?	(10 Marks)

OR

4	a.	Explain how Mobile Business intelligence is going Mainstream.	(10 Marks)
			(40 3 7 1)
	h	Describe Inter and trans Firewall analytics with a neat diagram.	(10 Marks)

Module-3

5	a	List the differences between Map Reduce and RDBMS.	(10 Marks)
	b.	List and explain briefly the Hadoop different projects.	(10 Marks)

6	a.	Explain the various Open sour	ce technology of Hadoop eco) System. (10 Marks)
	b.	Briefly explain the following	:	

Volunteer computing. Grid computing

(10 Marks)

Module-4

- Explain the architectural changes that are needed while replacing active name nodes with (10 Marks) standby name node.
 - Explain the sequence of events that take place when writing a file to HDFS with a neat (10 Marks) diagram.

- Write the anatomy of reading data from a file in HDFS with a neat diagram. (10 Marks) ii) Namenode and Datanode i) Blocks
 - Explain HDFS concepts: (10 Marks) iv) HDFS high availability. HDFS federation

Module-5

- What is Map Reduce? Explain Logical data flow in Map Reduce with a neat diagram. (10 Marks)
 - Explain how components in Hadoop are configured. (10 Marks)

CMRIT LIBRARY OR **BANGALORE - 560 037**

- (10 Marks) Describe the combiner functions in Hadoop. 10
 - Define Hadoop pipes. Write the source code for the map and reduce function in C++ to find (10 Marks) maximum temperature.

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