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21CS71

Seventh Semester B.E./B.Tech Degree Examination, Dec.2024/Jan.2025

Big Data Analytics

Time: 3 hrs.

Max. Marks: 100

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

Module-1

1	a.	Discuss the evolution of Big Data.	at the	(06 Marks)
	b.	Explain the characteristics of Big Data.	The state of	(04 Marks)
	c.	Explain Data Architecture Design, with a nea	at diagram.	(10 Marks)

OR

- 2 a. Explain Analytics Scalability to Big Data and Massive parallel processing platforms.
 (12 Marks)
 - b. Explain Big Data Analytics applications with one case study. (08 Marks)

Module-2

- 3 a. List and explain the core components of Hadoop. (10 Marks)
 - o. Explain Hadoop Distributed File System. (10 Marks)

OR

- 4 a. Define MapRedeuce Frame work and its functions. (06 Marks)
 - b. Explain steps on the request to MapReduce and the types of process in MapReduce.
 (10 Marks)
 - c. Explain in brief on Flume Hadoop Tool. (04 Marks)

Module-3

5 a. Explain about No SQL datastore and its characteristics. (10 Marks)
b. Describe the principle of working of the CAP theorem. (10 Marks)

OR

6 a. Demonstrate the working of key-value store with an example. (10 Marks)
b. Describe the features of MongoDB, and its industrial application. (10 Marks)

Module-4

- 7 a. Explain the process in MapReduce when client submitting a job, with a neat diagram.
 - (10 Marks)
 - b. Explain Hive Integration and workflow steps involved with a diagram. (10 Marks)

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OR

8 a. Using HiveQL for the following:

i) Create a table with partition

ii) Add, rename and drop a partition to a table.

b. What is PIG in BigData? Explain the feature of PIG.

(10 Marks)

(10 Marks)

Module-5

9 a. Explain linear and non-linear relationship with essential graphs in machine learning.

(10 Marks)

b. Write the block diagram of text mining process and explain its phases.

(10 Marks)

OR

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10 a. With a neat diagram, write the steps in K-means clustering.

(10 Marks)

b. Explain the purpose of web usage analytics and the significance of web graphs.

(10 Marks)

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