Code:6011E1/20/REG

## **Faculty of Science**

## B.Sc(Data Science) III-Year, CBCS-VI Semester Regular Examinations -June, 2023 PAPER: Big Data

Time: 3 Hours Max Marks: 80

## Section-A

I. Answer any eight of the following questions

(8x4=32 Marks)

- 1. Specify the Elements of Big Data.
- 2. What are the features of cloud computing?
- 3. Write a short note on Parallel Computing for Big Data.
- 4. What are Hadoop Functions?
- 5. What are Name Nodes and Data Nodes?
- 6. Write a short note on Oozie.
- 7. Write the Techniques to Optimize MapReduce Jobs.
- 8. Write the Characteristics of HBase.
- Write a short note on Big Data Stack.
- 10. What is polyglot persistence?
- 11. Write a short note on CAP Theorem.
- 12. Write the Characteristics of NoSQL.

## Section-B

II. Answer the following questions

(4x12=48 Marks)

13.(a) What are Big Data Analytics? Describe the advantages of Big Data Analytics.

(OR)

- (b) Explain various Cloud Deployment models.
- 14.(a) What is HDFS? Explain the concept of Blocks in HDFS Architecture.

(OR)

- (b) Describe the Features and Architecture of HBase.
- 15.(a) Describe the Map Reduce Framework. And explore the features of Map Reduce.

(OR)

- (b) Explain about the Ingestion Layer and Storage Layer of Big Data Technology.
- 16.(a) What are Non-Relational Databases? Discuss the Issues with them.

(OR)

(b) Describe any Two NoSQL Data Models.

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