

Roll No.

Total No. of Pages : 02

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B.Tech. (IT) (Sem.-6)

BIG DATA

Subject Code : BTIT601-18

M.Code : 79623

Date of Examination : 06-05-2024

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Explain the following in brief :

- a) Thread Pooling.
- b) GPFS.
- c) RDF.
- d) Give two applications of Big Data.
- e) What is HBASE?
- f) What is hive used for?
- g) Map Reduce.
- h) Future Scope of ERP.
- i) Data Mart.
- j) What is XML?

SECTION-B

2. Explain the terms : classification and clustering with respect to Big Data.
3. What are the 3 V's of Big Data? Explain with the help of two big data case studies.
4. **Explain the terms in brief with respect to analytical tool R :**
 - a) Differentiate between vector, List, Matrix, and Data frame.
 - b) Differentiate between library () and require () functions.
5. What is a Big data analytic tool? Is MongoDB faster than Cassandra? What are the key differences between two?
6. What is Data Visualization? Discuss techniques that are used for visual data representation.

SECTION-C

7. Explain scaling and CRUD operations in MongoDB.
8. Draw with the help of a diagram the concept of Hadoop architecture. Discuss the various components involved in it.
9.
 - a) Discuss in detail HDFS architecture with diagram.
 - b) Discuss in detail GPFS architecture with diagram.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.