

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

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

BIG DATA

Subject Code : BTIT-601-18

M.Code : 79623

Date of Examination : 30-04-2025

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) Big Data
- b) 3Vs of Big Data
- c) YARN
- d) CAP Theorem
- e) CRUD operations
- f) HQL
- g) Running Pig
- h) Vector in R
- i) Data Visualization
- j) Functions in R.

SECTION - B

2. Explain evolution and challenges with Big Data.
3. Describe the concept behind Map Reduce.
4. Discuss the use of array functions in MongoDB.
5. Write a note on user defined functions and execution mode of Pig in Hadoop Eco System.
6. How variables and expressions are handled in R?

SECTION - C

7. Explain Big Data Analytics, classification of analytics and Data Science.
8. Discuss the process of import and export in MongoDB.
9. Describe graphics analysis in R and techniques used for visual data representation.

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.