

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 : 04-12-2023

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. Write briefly :
  - a) What is BASE concept?
  - b) What are different types of digital data?
  - c) What is MapReduce?
  - d) What is TTL index in MongoDB?
  - e) What is CQLSH and why it is used?
  - f) What is difference between collection and document in MongoDB?
  - g) What is HQL in Hive?
  - h) What are vectors in R?
  - i) What do you understand by datasets?
  - j) Define Data Science.



### SECTION-B

2. What is Hadoop? Discuss the Hadoop eco-system and its main components in detail.
3. What is the difference between SQL and NoSQL databases? List NoSQL databases.
4. Explain MongoDB and its features, also discuss CRUD operations.
5. What are Jasper Reports? How does Jasper report connect to database?
6. What are different analytical approaches and tools used for business?

### SECTION-C

7. What are the classifications of analytics? Explain.
8. What are the steps in a MapReduce after job submission? Explain.
9. What is R and its variable? How vector is used in R? Explain.

**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.**