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Paper ID: BSD502 **Course Code:** BSDB33502T

Examination (January - 2024)

Bachelor of Science (B.Sc. – Data Science)

Semester - V

Big Data Management

Time Allowed: 3 Hours **Max. Marks: 70**

Instructions for the Students

1. Attempt any 2 questions out of 4 from Section – A (Each question carries 10 marks)
2. Attempt any 2 questions out of 4 from Section – B (Each question carries 10 marks)
3. Attempt any 10 questions out of 15 from Section – C (Each question carries 03 marks)

Section - A2*10=20

Q1. Explain Rational Database Management System in detail with suitable example.

Q2. Discuss the following in detail:
Structured Data
Unstructured Data
Semi Structured Data

Q3. What are the five Vs of big data?

Q4. What do you mean by data processing? Discuss the major steps of data processing.

Section - B2*10=20

Q5. What is streaming data? Discuss the benefits of streaming data.

Q6. What do you mean by No-SQL Databases? Discuss the advantages of NoSQL in detail.

Q7. What do you mean by MongoDB? Discuss the features of MongoDB.

Q8. Discuss basic data analytic methods in detail.

Section - C10*3=30

Q9. Short Answer Questions (Attempt any 10 questions)

a) What do you mean by big data?
b) How can big data analytics benefit business?
c) What do you mean by data wrangling?
d) What are the challenges of big data management?
e) Name a few big data processing techniques.
f) Discuss stream processing.
g) What are the challenges in working with streaming data
h) What is streaming in API?
i) Differentiate between SQL and NoSQL.
j) Discuss the elements of the MongoDB Architecture
k) What is HBase used for?
l) What do you mean by blogs?
m) Explain the big data management services?
n) Can HBase run without Hadoop?
o) What are the uses of NoSQL?