



62477

Reg. No.

**III Semester M.C.A. Degree Examination, May/June - 2025**  
**COMPUTER APPLICATIONS**  
**Big Data and Analytics (Elective)**  
**(CBCS Scheme 2020-21)**

**Time : 3 Hours**

**Maximum Marks : 70**

**Instructions to Candidates :**

Answer any **five** questions from **Part - A**.

Answer any **four** questions from **Part - B**.



**PART - A**

**Answer any Five of the following questions. Each question carries 6 marks. (5×6=30)**

1. Compare structured, unstructured and semi structured data.
2. Explain Big Data Challenges.
3. Describe discretization and concept hierarchy.
4. What is classification and Prediction? List the issues regarding classification.
5. What is Spatial Mining? Explain in detail.
6. Briefly explain the basic commands of HDFS.
7. Differentiate between HBase and RDBMS.
8. Write a short note on Data Analytics.

**PART - B**

**Answer any Four of the following questions. Each questions carries 10 marks.**

**(4×10=40)**

9. a) List and explain characteristics of big data. (5)  
b) Explain any 5 industrial applications of Big Data. (5)
10. What is data preprocessing? Explain in detail. (10)
11. a) Explain Bayesian classification in detail. (7)  
b) Write a short note on web mining. (3)
12. a) With a neat diagram explain Hadoop Architecture. (7)  
b) Discuss about Java Interface to HDFS. (3)
13. a) What is HIVE? Explain HIVEQL with an example (7)  
b) Differentiate between supervised learning and unsupervised learning. (3)
14. Write a short note on:  
a) Pig Operators (5)  
b) Collaborative Filtering. (5)

