

Roll.No.

23PCSCT3008

SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN
(AUTONOMOUS)

(Affiliated to the University of Madras and Re-accredited with 'A+' Grade by NAAC)
Chromepet, Chennai - 600 044.

M.Sc.Computer Science - END SEMESTER EXAMINATIONS - NOVEMBER 2025
SEMESTER - III

23PCSCT3008 - Big Data Analytics

Total Duration : 2 Hrs. 30 Mins.

Total Marks : 60

Section B

Answer any **SIX** questions ($6 \times 5 = 30$ Marks)

1. Explain the 5 Vs of Big Data with relevant examples for each.
2. Describe the role of HDFS in the Hadoop ecosystem and explain its data storage methodology.
3. Explain the importing and exporting data from various databases.
4. Illustrate sorting and aggregating in Hire with example.
5. Discuss the significance of NoSQL databases in Big Data Analytics and mention two popular NoSQL database types with use cases.
6. Define MapReduce and explain its working principle using a simple word count example.
7. Demonstrate the use of NoSQL with example.
8. How to import and save data in SQL.provide Example.

Section C

I - Answer any **TWO** questions ($2 \times 10 = 20$ Marks)

9. Explain the types of NOSQL databases.
10. Describe the challenges in Big Data processing and the methods to overcome them.
11. Illustrate the MongoDB Query Language with example.
12. Explain the architecture and working of Hadoop Distributed File System (HDFS) with a neat diagram.

II - Compulsory question ($1 \times 10 = 10$ Marks)

13. Discuss in detail the various use cases of MapReduce in big data processing.Provide suitable example.
