



QP CODE: 26019226



Reg No : .....

Name : .....

**M.Sc DEGREE (CSS) EXAMINATION, MARCH 2026**

**Fourth Semester**

M Sc INFORMATION TECHNOLOGY

**Core Courses - CA020401 - BIG DATA ANALYTICS**

2019 Admission Onwards

3EAC5877

Time: 3 Hours

Weightage: 30

**Part A (Short Answer Questions)**

*Answer any **eight** questions.*

*Weight 1 each.*

1. How does the Big data analytics work with unstructured data?
2. Analyze the term data environment.
3. What are the tools supported for big data analytics?
4. Who is data scientist?
5. Explain NoSQL applications.
6. What is Apache Cassandra?
7. What is Hadoop?
8. What is Map Reduce in Hadoop Architecture?
9. What are the key components of Hadoop Yarn?
10. How a Mapreduce application can be created?

(8×1=8 weightage)

**Part B (Short Essay/Problems)**

*Answer any **six** questions.*

*Weight 2 each.*

11. Write short note on characteristics of Big data.
12. Explain the characteristics of big data analytics.





13. Explain briefly the time and cost savings in big data.
14. Explain bigdata technologies and databases.
15. Explain the advantages of MongoDB.
16. Explain version2 Hadoop.
17. Define components of Hadoop ecosystem.
18. What are the benefits of Yarn?

(6×2=12 weightage)

### **Part C (Essay Type Questions)**

*Answer any **two** questions.*

*Weight 5 each.*

19. Explain in detail about the source of data with suitable examples.
20. Define NoSQL and NewSQL? Compare NoSQL and NewSQL.
21. What are the functions performed by Hadoop components? Explain.
22. Data Serialization in Big data is important. Comment.

(2×5=10 weightage)

