D4ACS2001	(1 Page)	Name
		Reg.No.

FOURTH SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2022

COMPUTER SCIENCE FCSS4E03-FUNDAMENTALS OF BIG DATA

Time: 3 Hours Maximum Weightage: 30

Section A: Short answer questions. Answer any four questions. Each carries two weightage.

- 1. List out various dimensions of Big Data.
- 2. Write a short note on spatial database.
- 3. Expand and explain ETL.
- 4. What is aggregation commands in mongoDB?
- 5. What are Collections? Explain how collections are renamed in mongoDB.
- 6. Why warehousing is important in Data management?
- 7. What is the advantage of using key/value pair in data management?

 $(4\times2=8 \text{ weightage})$

Section B: Short essay questions. Answer any four questions. Each carries three weightage.

- 8. What are the differences between structured data and unstructured data?
- 9. Explain the concepts behind NoSQL.
- 10. How do you justify R as an efficient tool for data analysis?
- 11. Write down the usages of \$slice, \$size, \$exists, \$type, \$elemMatch.
- 12. What are the differences between Pig and Pig Latin?
- 13. Explain architecture of HDFS.
- 14. Briefly explain wrapper classes.

 $(4\times3 = 12 \text{ weightage})$

Section C: Essay questions. Answer any two questions. Each carries five weightage.

- 15. Explain in detail with suitable examples about four V's of Big Data.
- 16. Explain the role of efficient Data analysis methodologies in Big Data.
- 17. Discuss the configuration and implementation strategies of MongoDB.
- 18. Explain in detail the role of Map Reduce algorithm in Managing Big Data.

 $(2 \times 5 = 10 \text{ weightage})$