

S.No. 2761

P 16 CSE 5 A/P 16 ITE 3 A

(For candidates admitted from 2016–2017 onwards)

M.Sc. DEGREE EXAMINATION, NOVEMBER 2022.

Computer Science/Information Technology –Elective

BIG DATA ANALYTICS

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20)

Answer ALL questions.

1. What is Unstructured Data?
2. Define Bigdata.
3. List out the characteristics of Big data analytics
4. List the importance of Bigdata analytics.
5. Define NoSQL.
6. Differentiate NoSQL and NewSQL.
7. List the Key advantages of Hadoop.
8. Write the essential of Hadoop ecosystems.

9. Define YARN Framework.

10. What is MapReduce?

PART B — ($5 \times 5 = 25$)

Answer ALL questions, choosing either (a) or (b).

11. (a) Write about challenges of Bigdata in detail.

Or

(b) Illustrate the types of digital data.

12. (a) Discuss the business intelligence in Big data analytics.

Or

(b) Describe the need of Big data analytics.

13. (a) Write about the types of NoSQL.

Or

(b) Explain about characteristics of Apache Cassandra.

14. (a) Write short notes on the features of Hadoop.

Or

(b) Illustrate the difference between RDBMS and Hadoop.

15. (a) Explain about MapReduce application in detail.

Or

(b) Describe about Big data Serialization Formats in detail.

PART C — ($3 \times 10 = 30$)

Answer any THREE questions.

16. Differentiate data environment and big data environment.

17. Discuss in detail about the characteristics of Big data analytics

18. Describe the advantages and disadvantages of NoSQL database.

19. Illustrate the architecture of Hadoop with diagram.

20. What is Data Serialization? Explain the working with common serialization formats.