

FACULTY OF INFORMATICS
MCA V Semester (CBCS) (MAIN & BACKLOG) Examination, February 2022

Subject: Big Data Analysis

Time: 3 Hours

Max. Marks: 70

(Missing data, if any, may be suitably assumed)

Note: Answer any five question from the following. All questions carry equal marks.

- 1 (a) Discuss the elements of Big Data.
(b) Explain about the advantages of Big Data Analytics.
- 2 (a) Discuss about Cloud Deployment Models.
(b) List the difference between parallel and Distributed Systems.
- 3 Explain about Hadoop Ecosystem in detail.
- 4 (a) Explain about HDFS Architecture.
(b) Write a short notes on Pig Latin.
- 5 (a) Discuss the working of MapReduce.
(b) Write role of HBase in Big Data processing.
- 6 (a) Briefly explain about an ingestion layer in Big data architecture.
(b) Exploring the Big Data Stack with diagram.
- 7 Discuss the following:
 - (a) RDBMS and Big Data
 - (b) Issues with non-relational database.
- 8 (a) Discuss about Polyglot Persistence.
(b) How to integrate Big Data with traditional Data Warehouse?
- 9 Briefly explain types of NOSQL Data Models.
- 10 (a) Discuss about Materialized View.
(b) Explain about CAP theorem.