

UNIT – I

- 2. (a) What is Big Data ? Explain various characteristics, challenges and applications of Big Data. 8
- (b) What is HDFS ? Explain its components. 7
- 3. (a) Explain six V's of Big Data in detail. 8
- (b) Write short note on foundation for big data system and programming. 7

UNIT – II

- 4. (a) Define Data Mart ? Explain different types of data marts with example. Also advantages and disadvantages of data marts. 8
- (b) Explain RDMS features and architecture in detail. 7
- 5. (a) What is NoSQL .Explain different types of NoSQL databases with example ? Differentiate SQL and NoSQL with example. 10
- (b) Write short note on different types of file formats used in big data. 5

UNIT – III

- 6. What is Modeling ? Explain various type of data models with example. 15
- 7. (a) Explain different types of big data management techniques. 10
- (b) Write short note on real life applications of big data. 5

UNIT – IV

- 8. (a) What is Hive ? Explain Hive features. Hive integration and workflow and architecture in detail. 10
- (b) Write short note on Hive Query Language (HQL). 5
- 9. (a) Write short note on Pig architecture and commands. 8
- (b) Explain MapReduce working ? WAP for Word Count using MapReduce. 7

Roll No.

3718

**B. Tech. 8th Semester (Computer
Science & Information Technology)
Examination – May, 2023**

BIG DATA ANALYSIS

Paper : PCC-CSE-404-G/PCC-IT-403-G

Time : Three Hours]

[Maximum Marks : 75

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt five questions in all, selecting at least one question from each Unit. Question No. 1 is compulsory. All questions carry equal marks.

1. Write short note on the following : 2.5 × 6 = 15
- (i) Data Sciences
 - (ii) ELT
 - (iii) Sources of data using service bindings
 - (iv) Data ingestion
 - (v) MongoDB
 - (vi) DFS

3718-2,400-(P-3)(Q-9)(23)

P. T. O.