

3718

B.Tech. (Computer Science & Information Technology)

8th Semester (G-Scheme) Examination, July-2022

BIG DATA ANALYSIS

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

Time allowed : 3 hours]

[Maximum marks : 75

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

1. Explain the following:

(a) Big Data

(b) Map Reduce

(c) YARN

(d) Data Mart

(e) ETL

(f) Six V in big data

6×2.5=15

Section-A

2. Define the different techniques in big data analytics. 15

3. Discuss the following in detail

(i) Conventional challenges in big data 8

(ii) Nature of Data. 7

3718-P-2-Q-9 (22)

[P. T. O.]

Section-B

4. What is Big data platform? Describe the main features of a big data platform in detail. 15
5. Define HDFS. Describe name node, data node and block. Explain HDFS operations in detail. 15

Section-C

6. (i) Compare Traditional DBMS and Big Data Management Systems. 8
- (ii) Describe any five real life applications of Big Data. 7
7. What is Real Time Analytics? Discuss their technologies in detail. 15

Section-D

8. (i) What is Hadoop? Explain its components. 5
- (ii) How do you analyse the data in hadoop. 10
9. What is Real-Time Analytics? Discuss their technologies in detail. 15