Faculty of Engineering & Technology
Seventh Semester B.E. (C.S.E.) (C.B.S.) Examination
Elective—I : BIG DATA ANALYSIS AND BUSINESS
INTELLIGENCE

Time—Three Hours]   [Maximum Marks—80

INSTRUCTIONS TO CANDIDATES

(1) All questions carry marks as indicated.

(2) Solve Question No. **1 OR** Question No. **2**.

(3) Solve Question No. **3 OR** Question No. **4**.

(4) Solve Question No. **5 OR** Question No. **6**.

(5) Solve Question No. **7 OR** Question No. **8**.

(6) Solve Question No. **9 OR** Question No. **10**.

(7) Solve Question No. **11 OR** Question No. **12**.

(8) Assume suitable data wherever necessary.

1. (A) What do you mean by Big Data ? Explain the concept
        of 3 v's in Big Data.   7

    (B) Explain the different modes of Hadoop.   6

OR

2. (A) Explain HDFS of Map Reduce Architecture. 7

(B) Discuss different features of R Language. 6

3. (A) Describe different ways to write Map Reduce in R. 7

(B) Explain the concept of Hadoop Map Reduce. 6

OR

4. (A) Explain the architecture of RHIPE and RHadoop. 9

(B) Write a short note on Map Reduce. 4

5. Write short notes (any **TWO**) :

(i) Supervised Machine Learning Algorithm 7

(ii) Unsupervised Machine Learning Algorithm 7

(iii) Data Analytics Project Cycle. 7

OR

6. (A) Write the concept of Stock Market Exchange analytics problem. 7

(B) Explain the roles and responsibilities of Business Intelligence. 7

7. (A) Explain the Business Intelligence Framework in detail. 7

(B) Discuss Business Intelligence Technologies. 6

OR

8. (A) Discuss Role and Responsibilities of Business Intelligence. 7

(B) Write a short note on Business Intelligence process. 6

9. Write short notes (any **THREE**) :

(i) Star Schema

(ii) Snowflake Schema

(iii) Data Profiling Concept

(iv) Multidimensional Data Model. 4+4+5+5

OR

10. (A) Explain common data integration approaches. 7

(B) Write a short note on Data Integration Technologies. 7

11. (A) Explain the concept of Functional Requirements in BI Project. 7

(B) Write a short note on Post-Production Support in BI. 6

OR

12. (A) Explain Business Intelligence Project Life Cycle. 7

(B) Write a short note on non-functional requirement in BI project. 6