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B.E. (Computer Science & Engineering) Seventh Semester (C.B.S.)
Elective - I : Big Data Analysis & Business Intelligence

P. Pages : 2

Time : Three Hours



NRT/KS/19/3575

Max. Marks : 80

- Notes :
1. All questions carry marks as indicated.
 2. Solve Question 1 OR Questions No. 2.
 3. Solve Question 3 OR Questions No. 4.
 4. Solve Question 5 OR Questions No. 6.
 5. Solve Question 7 OR Questions No. 8.
 6. Solve Question 9 OR Questions No. 10.
 7. Solve Question 11 OR Questions No. 12.
 8. Due credit will be given to neatness and adequate dimensions.
 9. Assume suitable data whenever necessary.
 10. Illustrate your answers whenever necessary with the help of neat sketches.
 11. Use of non programmable calculator is permitted.

1. a) What is Bigdata? Explain 4V's of Bigdata in detail. **7**
b) Explain Data Analytics Life Cycle. **6**

OR

2. a) Explain different modes of Hadoop. **7**
b) Discuss Data Analytic problem in detail. **6**
3. a) Describe Hadoop Map reduce fundamentals. **6**
b) Draw & explain architecture of RHIPE with its components. **7**

OR

4. a) Explain attributes of map and Reduce phase. **6**
b) What are different ways to write map reduce in R with example. **7**
5. a) Describe "web page categorization" the data analytics problem. **7**
b) Write the concept of "Stock market exchange analytics problem". **7**

OR

6. a) Write short note on **any two**. **14**
 - i) Supervised Machine learning algorithm
 - ii) Unsupervised machine learning algorithm.
 - iii) Data Analytic Project cycle.

7. a) Explain the role of data warehousing in Business Intelligence. 6
- b) Write short note on: Business Intelligence roles & responsibilities. 7

OR

8. a) Explain Business Intelligence framework. 7
- b) Discuss Business Intelligence technologies. 6
9. a) Explain the concept of multidimensional data Model. 7
- b) Explain common approaches for data Integration. 6

OR

10. a) Explain in detail the star and snowflake schema. 7
- b) What is the need & advantages of using data Integration. 6
11. a) Explain Post Production Support in BI. 7
- b) Explain functional requirement in BI. 7

OR

12. a) Which are different methods for testing in BI project. 7
- b) Explain typical Business Intelligence project life cycle. 7



~ Chinese Proverb

