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> IT'S HARD TO BEAT A PERSON WHO NEVER GIVES UP.
>
> Babe Ruth, American professional baseball player

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

P. Pages : 2

NIR/KW/18/3575

Time : Three Hours

1913

Max. Marks : 80

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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.

1. a) Define Big Data. Explain the characteristics of Big data. **7**

b) Explain data analytics life cycle with proper diagram. **6**

OR

2. a) Explain different modes of Hadoop. **7**

b) Discuss various features of R language. **6**

3. a) Explain concept of HDFS and MapReduce architecture. **7**

b) Write short note on RHIPE architecture. **7**

OR

4. a) Describe different ways to write Map Reduce in R. **7**

b) Explain architecture of RHIPE and R-Hadoop. **7**

5. Write short note on :- **any two.** **13**
i) Data Analytic Project Cycle.
ii) Supervised Machine learning algorithm.
iii) Unsupervised Machine learning algorithm.

OR

6. a) Describe "Web page categorization" the data analytics problem. **7**

b) Write concept of stock market exchange analytics problem. **6**

7. a) Define Business Intelligence (BI) Explain the concept of BI in detail. **7**

b) Discuss BI Framework with proper diagram. **6**

OR

8.	a)	Explain the Role of Data warehousing in Business Intelligence.	**7**
	b)	What do you mean by Business Intelligence value chain? Explain.	**6**
9.	a)	Explain the concept of data integration with its need.	**7**
	b)	Discuss common data integration approaches in detail.	**7**

OR

10.   Explain the following **any three.**   **14**
  i)   Multidimensional data model.
  ii)   Data cube.
  iii)   Star Scheme.
  iv)   Snowflake Schema.

11.	a)	What are functional and non-functional requirements for requirement gathering and analysis.	**7**
	b)	Discuss Business Intelligence (BI) Project Life cycle.	**6**

OR

12.   a)   Write short note on.   **8**
  i)   Testing in BI project.
  ii)   Post production support in BI.

      b)   Discuss BI project Deployment process in short.   **5**

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All our dreams can come true if we have the courage to pursue them.

~ Walt Disney