R15

Code No: 824AM

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
MCA IV Semester Examinations, April/May - 2019
BIG DATA ANALYTICS

Time: 3hrs   Max.Marks:75

Note: This question paper contains two parts A and B.
Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART - A

5 × 5 Marks = 25

1.a) What is meant by datafication? What features are to be considered in this? [5]
  b) List the main differences between reporting and analysis. [5]
  c) What points need to be considered while designing a file system in Map Reduce? [5]
  d) What features of RDBMS are greatly missed in NoSQL? [5]
  e) What are the key elements of social media? [5]

PART - B

5 × 10 Marks = 50

2.a) What are the elements of big data? Briefly describe them.
  b) How to apply big data in education sector? [5+5]

OR

3. Compare Analytics 1.0, 2.0 and 3.0. Discuss the top challenges facing big data. [10]

4. Depict the roles of the analytics team and information technology professionals in an organization. [10]

OR

5. Make a comparison of features of R tool with IBM SPSS tool. For social media data analysis for a political party, which of these two tools would you suggest? Why? [10]

6. Explore the techniques to optimize Map Reduce Jobs. [10]

OR

7. With the help of a neat diagram explain the architecture of Hadoop distributed file system. [10]

8. Demonstrate setting up a Hadoop distributed file system cluster with a Name node and three data nodes. [10]

OR

9.a) Is YARN advantageous over Map Reduce? Justify your answer.
  b) What is the need of replica processing of data in Hadoop? [5+5]

10. What is the significance of sentiment analysis? How to handle facts and opinions? Explain with relevant examples. [10]

OR

11.a) What are the applications of mobile analytics?
   b) Differentiate between mobile app analytics and mobile web analytics. [5+5]

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