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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