R17

Code No: 844AM

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
MCA V Semester Examinations, December - 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) List the types and sources of big data.   [5]
  b) Differentiate between monetized analytics and operational analytics.   [5]
  c) What points to be considered in designing a file to support Map Reduce implementation?
                                                                                       [5]
  d) What is NoSQL? Where is it used?   [5]
  e) List the key elements of social media.   [5]

PART - B

                                                                   5 × 10 Marks = 50

2.   Describe three types of analytics and various analytical approaches typically associated with big data.   [10]

OR

3.a) Explain the importance of parallel computing for big data.
  b) What are the key questions to be answered by all organizations stepping into analytics?
                                                                                     [5+5]

4.   Explain the differences between reporting and analysis with suitable example scenarios.
                                                                                      [10]

OR

5.a) Illustrate various phases of analysis process.
  b) Make a brief comparison of R and SAS tools.   [5+5]

6.   Discuss the role of HBase in big data processing with suitable examples.   [10]

OR

7.a) Briefly discuss any five hadoop-specific file system types.
  b) What is the functionality of Hadoop YARN?   [5+5]

8.a) Discuss the advantages of shared nothing architecture.
  b) List the components of the Hadoop ecosystem.   [5+5]

OR

9.   What are the limitations of relational database management system? Explain how hadoop has overcome them.   [10]

10.a) What parameters are applied to classify the given text in the process of sentiment analysis?
   b) Discuss briefly online tools used to perform sentiment analysis.   [5+5]

OR

11.a) What is the importance of location-based tracking tools?
   b) Differentiate between internal and external mobile analytics tools.   [5+5]