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The Assam Royal Global University, Guwahati
Royal School of Engineering & Technology (RSET)
BTech CSE 7th Semester
Semester End Examination, January 2023
Course Title: Big Data Analytics
Course Code: CSE022D704

Time: 3 Hours

Maximum Marks: 70

Note: Attempt all questions as per instructions given.
The figures in the right-hand margin indicate marks.

Section – A

1. Attempt **all** questions. (Maximum word limit 50) 2 x 8
- What is big data?
 - Give the difference between data analysis and data reporting.
 - What is Big table?
 - Write the two major functionalities of Hadoop YARN.
 - What are association rules? Give an example.
 - Define predictive analytics.
 - Give the properties of stream data.
 - Why NoSql is essential in handling big data?

Section – B

2. Attempt **any two** of the following: 6 x 2
- Define veracity & value of big data? Explain characteristics and types of big data.
 - What are the challenges of Big Data and how these challenges are addressed? Explain.
 - Define Unstructured Data Analytics. Elaborate on Context-Sensitive and Domain-Specific Searches.
3. Attempt **any two** of the following: 7 x 2
- Illustrate the various phases involved in Big Data Analytics with neat diagram.
 - Illustrate the Hadoop core components with neat diagram
 - Discuss the Hadoop system and ecosystem components in four layers.
4. Attempt **any two** of the following: 7 x 2
- Define HDFS. Describe name node, data node and block. Explain HDFS operations in detail.
 - What is HBase? Explain storage mechanism of HBase with an example.
 - What is Zookeeper? List the benefits of it. Differentiate between Apache pig Vs Map Reduce?
5. Attempt **any two** of the following: 7 x 2
- Explain the procedure for installing R in your system. Describe the any three packages which support predictive analysis.
 - What is NoSQL? List out the features of NoSQL. Explain types of NoSQL databases in brief.
 - Illustrate main features and architecture of Hive with neat diagram.