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Total No. of Pages : 02

Total No. of Questions : 18

B.Tech.(CSE) (2011 Onwards E-III) (Sem.-7,8)

BIG DATA

Subject Code : BTCS-914

Paper ID : [A2996]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. **SECTION-A** is **COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
2. **SECTION-B** contains **FIVE** questions carrying **FIVE** marks each and students have to attempt any **FOUR** questions.
3. **SECTION-C** contains **THREE** questions carrying **TEN** marks each and students have to attempt any **TWO** questions.

SECTION-A**Explain the following in brief :**

1. Need of big data.
2. Historical development of big data.
3. Advantages of Hadoop approach.
4. Data mining vs. data warehousing.
5. Characteristics of indexing.
6. Parameters of real time analytics in big data.
7. Major reasons for growth of data in 21st century.
8. Features of segmentation.
9. Future scope of ERP.
10. Limitations of using JAQL.

SECTION-B

11. Draw a well labeled diagram to illustrate the concept of Hadoop architecture. Discuss the various components involved in it.
12. List any four various application areas of sentiment analysis. Explain each area with the help of suitable example.
13. Differentiate between classification and clustering with respect to big data.
14. Explain the growth and popularity of business intelligence tools. Discuss the various applications that can be created using these tools.
15. What are the various challenges that need to be addressed while dealing with stream computing? Explain with the help of suitable example.

SECTION-C

16. Create an inverted index using JAQL. Discuss the real time analytics platform (RTAP) in detail.
17. How the big data has changed the definition of data visualization? Explain with the help of suitable case study.
18. List the various limitations of existing distributing systems. Discuss the various methods to provide a solution to such limitations.