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Roll No.	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-91	4
M.Code:71906	
Time:3 Hrs.	Max. Marks:60

INSTRUCTION TO CANDIDATES :

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- SECTION-B contains FIVE questions carrying FIVE marks each and students 2. 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. List two applications of Big Data.
- 2. What is XML?
- inker.com What are the challenges of Big Data? 3
- What are the limitations of conventional systems? 4.
- 5. What is GPFS?
- 6. What is supervised machine learning?
- 7. What is HBASE?
- 8 What is PIG?
- 9. What is RDF?
- 10. How does Reduce function work?



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SECTION-B

- 11. What is Hadoop Ecosystem? Discuss various components of Hadoop Ecosystem.
- 12. Explain following in brief with respect to MongoDB :
 - a. Collections and documents
 - b. Indexing and retrieval
- 13. How are Bl tools used to create big data applications? Explain with examples.
- 14. Discuss role of Data node and Name node in HDFS.
- 15. Explain :
 - a. Clustering
 - b. Classification

SECTION-CON

- 16. Explain working of following phases of Map Reduce with one common example :
 - a. Map Phase
 - b. Combiner Phase
 - c. Shuffle and Sort Phase
 - d. Reducer Phase
- 17. What are the benefits of Big Data? Discuss challenges under Big Data. How Big Data Analytics can be useful in the development of smart cities? (Discuss one application)
- 18. What is NoSQL database? List the differences between NoSQL and relational databases. Explain in brief various types of NoSQL databases in practice.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.