Roll No. ☐☐☐☐☐☐☐☐☐☐☐☐☐   Total No. of Pages : 02

Total No. of Questions : 18

B.Tech. (CSE) (2012 to 2017 E-III)   (Sem.–7)
BIG DATA
Subject Code : BTCS-914
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.
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.   What is Big data? Why we need Big Data?

2.   What is JSON?

3.   What are the challenges of Big Data?

4.   What are the limitations of conventional systems?

5.   What is HDFS?

6.   Explain machine learning.

7.   What is JAQL?

8.   What is PIG?

9.   What is hive used for?

10. How does Map function work?

SECTION-B

11. What are the 3 V's of Big data? Explain with the help of two big data case studies.

12. Explain Issues in Data stream query processing.

13. How are BI tools used to create big data applications? Explain with examples.

14. What is indexing? What are the techniques used for indexing?

15. Explain :

     a. Clustering

     b. Classification

SECTION-C

16. a. Explain HDFS architecture with diagram.

     b. Explain GPFS architecture with diagram.

17. How recommendation is done on properties of product? Explain with suitable example.

18. a. Explain scaling in MangoDB.

     b. Explain CRUD operations in MongoDB.

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.