VI Semester M.C.A. Examination, June/July 2018
(CBCS)
COMPUTER SCIENCE
MCA6E13 : Big Data Analytics

Time : 3 Hours Max. Marks : 70

Instructions : 1) Answer any five from Part – A and any four from Part – B.
3) Part – B : Answer any four questions. Each carries 10 marks.

PART – A

1. What is NoSQL ? List out the advantages of using NoSQL ?
2. Write a note on Grid computing and Volunteer computing.
3. List and explain various types of failures in classic MapReduce.
4. List and explain features of Apache Cassandra.
5. Explain Hive data types.
6. How data integrity is preserved in Hadoop ? Explain.
7. Write a note on Avro serialization system.
8. What are MapReduce output formats ?

PART – B

9. Discuss the significance of big data in various industrial applications.
10. Differentiate NoSQL from SQL. What are the different types of NoSQL databases ?
11. Explain various levels in MapReduce workflow.

12. a) What is Apache Pig? List out the differences between Pig and MapReduce.
    b) Write a note on Pig Data Model.

13. Write a note on following: (5 marks)
    a) HBase
    b) HiveQL

14. Explain HDFS architecture with the help of a neat diagram.

PART - A

1. What is NoSQL? List out the advantages of using NoSQL.
2. Write a note on Grid computing and Volunteer Computing.
3. List and explain various types of cluster in classic MapReduce.
4. List and explain features of Apache Cassandra.
5. Explain Hive data types.
6. How data integrity is preserved in Hadoop? Explain.
7. Write a note on Auto-Scalability system.
8. What are MapReduce output formats?

PART - B

9. Discuss the significance of pig data in various industrial applications.
10. Differentiate NoSQL from SQL. What are the different types of NoSQL databases?