



III Semester M.C.A. Examination, April/May 2022
(CBCS – Y2K20 Scheme)
COMPUTER SCIENCE
3MCAE2 : Big Data Analytics (Elective)

Time : 3 Hours

Max. Marks : 70

- Instructions :**
- 1) **Part – A** : Answer **any five** questions. **Each** carries **6** marks.
 - 2) **Part – B** : Answer **any four** questions. **Each** carries **10** marks.

PART – A

1. What is Big data ? What are the characteristics of big data ?
2. What is NOSQL ? Differentiate NOSQL from SQL.
3. What is data pre-processing ? What is the importance of data pre-processing ?
4. Write a note on data reduction.
5. Explain Bayesian classification in detail.
6. Explain spatial data mining.
7. Explain the ecosystem of HADOOP.
8. Explain Hive data types.

PART – B

9. Discuss the significance of big data in various industrial applications.
 10. Explain data transformation technique in data pre-processing.
 11. What is MapReduce ? Explain various levels in MapReduce workflow.
 12. Explain HDFS in detail with a diagram.
 13. What is Apache Pig ? Explain the various components of the model.
 14. Write a note on following :
 - a) Hbase 5
 - b) PigLatin. 5
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