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Total No. of Pages : 02

Total No. of Questions : 09

B.Tech. (CSE/ECE) / BCA (Sem.–5,7,8)

INTRODUCTION TO BIG DATA

Subject Code : BTEC-909A-18

M.Code : 90683

Date of Examination : 26-05-2025

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS 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

1. **Write briefly :**

- a) Big Data
- b) Perception of value.
- c) Map Reduce
- d) YARN
- e) Hadoop ecosystem
- f) JAQL
- g) Regression
- h) Classification
- i) RTAP
- j) Decision Trees

SECTION - B

2. Explain the characteristics of big data.
3. Discuss the limitations of existing distributing systems.
4. Describe the hadoop cluster components.
5. Explain the k-means algorithm with example.
6. Discuss the challenges in handling streaming data from the real world.

SECTION - C

7. Explain Hadoop architecture and hadoop HR engine.
8. Write a note on hadoop ecosystem, hadoop implementation and hadoop cluster components.
9. Describe the term ML search. Also, discuss indexing and indexing techniques..

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.