

**Roll No.**

**Total No. of Pages : 02**

**Total No. of Questions : 09**

**B.Tech. (CSE) (Sem.-6)**

# MACHINE LEARNING

**Subject Code : BTCS-618-18**

**M.Code : 79257**

**Date of Examination : 19-12-22**

**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. **Define the following term:**
  - a) Big Data
  - b) Well-Posed Learning Problems
  - c) Data Cleaning
  - d) Feature scaling
  - e) Mean Absolute Error
  - f) Correlation
  - g) SVM
  - h) Logistic Regression
  - i) Mutation
  - j) Elistism.

## **SECTION-B**

2. Explain need and applications of Clustering.
3. Compare Simple Linear Regression, Multiple Linear Regression and Polynomial Regression.
4. What is the difference between training set and test set?
5. Compare Supervised, Unsupervised and Reinforcement Learning.
6. How decision trees are used in Machine Learning?

## **SECTION-C**

7. Define Machine Learning. Explain the basic machine learning workflow. Discuss the advantages and challenges of machine learning.
8. Explain the concept of classification in detail.
9. Write need and application of Artificial Neural Network.