PARUL UNIVERSITY
FACULTY OF ENGINEERING & TECHNOLOGY
M.Tech. Summer 2018-19 Examination

Semester: 2   **Date: 29/04/2019**
Subject Code: 03201151   **Time: 02:00 pm to 04:30 pm**
Subject Name: Machine Learning   **Total Marks: 60**

Instructions:
1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

Q.1 A) Challenges in Machine Learning Domain   **(05)**

    B) Explain KNN with suitable example.   **(05)**

    C) List out the Difference between Supervised and Unsupervised Learning   **(05)**

Q.2 Answer the following questions. (Attempt any three) (Each five mark)   **(15)**

    A) Briefly explain Decision Tree Learning and types of Decision trees.

    B) Justify the differences between Classification, Clustering & Regression.

    C) What is linear regression? Drawbacks of Linear regression.

    D) What is Kernel function? Types of kernel Function.

Q.3 A) Describe various Transfer / Thresholding Function in Artificial neural network. **(07)**

    B) Explain Back propagation with suitable example   **(08)**

OR

    B) What is Naïve Bayes Algorithm? Write down its limitation.   **(08)**

Q.4 A) Write a short note on Support Vector Machine.   **(07)**

OR

    A) What is Deep learning? List out various networks use in Deep learning with example. **(07)**

    B) Explain following terms 1) Mutation 2) Crossover 3)Fitness function 4) Reproduction **(08)**