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

Semester: 1   **Date: 12/12/2018**
Subject Code: 203202130   **Time: 10:30 am to 01:00 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) Difference between Supervised and Unsupervised Learning	**(05)**
Q.2	**Answer the following questions**. (Attempt any three) (Each five mark)	**(15)**
	A) What is Decision Tree Learning? Types of Decision trees	
	B) What are the differences between Classifications, Clustering & Regression?	
	C) What is linear regression? Drawback of Linear regression	
	D) What is Kernel function in Support vector Machine? Types of kernel Function.	
Q.3	A) Describe various Transfer / Thresholding Function in Artificial neural network	**(07)**
	B) Explain Back propagation Artificial Neural network 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) Explain Convolutional Neural Network.	**(07)**
	B) Explain following terms 1) Mutation 2) Crossover 3)Fitness function 4) Reproduction	**(08)**