Seat No.: _____

Enrolment No.____

GUJARAT TECHNOLOGICAL UNIVERSITY MCA-SEMESTER-V EXAMINATION-SUMMER-2019

Subject Code: 3650014 Date: 10-05-2019

Subject Name: Machine Learning

Time:10.30 am to 1.00 pm Total Marks: 70

Instructions:

- 1. Attempt all questions.
- 2. Make Suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a) (b)	Discuss any one application area of Machine learning. Answer the following i. Give utility of Find-S algorithm ii. Discuss lazy and eager learning.	07 07
Q.2	(a)	Differentiate between supervised and unsupervised learning with respect to machine learning.	07
	(b)	Discuss candidate elimination algorithm giving example. OR	07
	(b)	Discuss steps in developing machine learning applications.	07
Q.3	(a) (b)	Discuss concept of Decision tree giving example. Discuss concept of Regression in machine learning. OR	07 07
Q.3	(a) (b)	Discuss K-NN algorithm giving example. Discuss problems of Neural network representation.	07 07
Q.4	(a) (b)	Discuss Back propagation algorithm. Discuss hypothesis space search in decision making. OR	07 07
Q.4	(a)		07
Q.4	(b)	Discuss the summary of checkers learning program.	07
Q.5	(a) (b)	· · · · · · · · · · · · · · · · · · ·	07 07
Q.5		Write formula for Bayes theorem. With help of example, discuss it. Discuss Brute Force learning algorithm.	07 07
