

~~Dr. Virek~~ Dr. Virek
Sehgal
Roll No:.....

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- February 2019

Ph.D CSE

COURSE CODE: 18M1WCI332

MAX. MARKS: 15

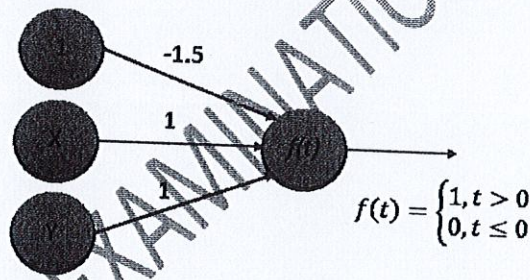
COURSE NAME: DEEP LEARNING

COURSE CREDITS: 03

MAX. TIME: 1 Hr

Note: All questions are compulsory. Each question carries equal marks. Carrying of mobile phone during examinations will be treated as case of unfair means.

1. (a) What is the difference between Conventional Computers and Neural Networks.
(b) How do our brains work? Draw a schematic description of biological neuron and artificial neuron.
2. Consider a single Perceptron with weights as shown in the Figure:



Which of following problem can be solved by this single Perceptron model:

- a. AND
 - b. OR
 - c. XOR
3. (a) Draw and explain the Multilayer Neural Network with its abbreviated Notation
(b) Draw and explain the Following activation functions
 - i. Sigmoid or Logistic
 - ii. Tanh—Hyperbolic tangent