

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- FEB-2023

B.Tech CSE&IT VI Semester

COURSE CODE(CREDITS): 18B1WCI634(2)

MAX. MARKS: 15

COURSE NAME: Machine Learning

COURSE INSTRUCTORS: Dr. Yugal, Dr. Abhilasha & Dr. Vipul

MAX. TIME: 1 Hour

*Note: All questions are compulsory. Marks are indicated against each question in square brackets.*

- Q1. CO-1 a. What are the key challenges in developing machine learning applications? [2]  
b. What is F1-Measure and RoC curve? Give their significance. [2]
- Q2. CO-1 Calculate the value of accuracy, precision and recall from the following multiclass confusion matrix. [3]

**Predicted**

		A	B	C
Actual	A	18	12	11
	B	8	25	16
	C	5	13	35

- Q3. CO-2 a. How do we handle categorical data in Machine Learning? [2]  
b. Differentiate between classification and regression problems with the help of an example. [2]
- Q4. CO-2 a. What do you mean by reinforcement learning? [1]  
b. What do you mean by inductive learning? [1]  
c. What do you mean by logistic regression? Derive its objective function. [2]