

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- FEB-2023

B.Tech Bioinformatics VI Semester

COURSE CODE (CREDITS): 18B11BI611(3)

MAX. MARKS: 15

COURSE NAME: Machine Learning for Bioinformatics

COURSE INSTRUCTORS: Dr. Vipul Sharma

MAX. TIME: 1 Hour

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

- Q1. CO-1 a. What is the difference between nominal encoding and ordinal encoding? [2]
b. What is a dumb model? Explain with the help of an example. [2]
- Q2. CO-1 Calculate the value of accuracy, precision and recall from the following multiclass [3]
confusion matrix.

		Predicted			
		A	B	C	D
Actual	A	5	12	13	10
	B	8	11	12	9
	C	3	9	11	11

- Q3. CO-2 a. What is the difference between supervised and unsupervised datasets? [2]
b. How will you compute the ROC curve and what will you do if AUC of a model is less than 0.2? [2]
- Q4. CO-2 a. What is the difference between logistic and linear regression? [2]
b. What do you mean by deductive learning? [1]
c. How will you compute the F1 Score? [1]