

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -3 EXAMINATION- 2023

B.Tech-I Semester (ECE)

COURSE CODE (CREDITS): 20B1WEC532 (3)

MAX. MARKS: 35

COURSE NAME: Introduction to Machine Learning

COURSE INSTRUCTORS: Lt. Pragya Gupta

MAX. TIME: 2 Hours

Note: (a) All questions are compulsory.

(b) Marks are indicated against each question in square brackets.

(c) The candidate is allowed to make Suitable numeric assumptions wherever required for solving problems

Q1. What are the basic data types in machine learning? Give an example of each one of them. [3] (CO 1)

Q2. Give the difference between the following with example- [4] (CO1)

- i. Frequentist Interpretation and Bayesian Interpretation
- ii. Deterministic and non-deterministic experiment

Q3. What is Bayes Theorem. Explain each term of Baye's theorem with example. [2] (CO 3)

Q4. Explain Decision tree algorithm. Write the strength and weakness of decision tree method. [7] (CO3)

Q5.

Point	Coordinate s	Class Label
A1	(2,10)	C2
A2	(2, 6)	C1
A3	(11,11)	C3
A4	(6, 9)	C2
A5	(6, 5)	C1
A6	(1, 2)	C1
A7	(5, 10)	C2
A8	(4, 9)	C2
A9	(10, 12)	C3
A10	(7, 5)	C1
A11	(9, 11)	C3
A12	(4, 6)	C1
A13	(3, 10)	C2
A15	(3, 8)	C2
A15	(6, 11)	C2