

HARCOURT BUTLER TECHNICAL UNIVERSITY, KANPUR
Mid Semester Examination Final CSE/IT
Even Semester (VIII), 2022-23
ECS-482: MACHINE LEARNING

Time: 1 Hour

Max. Marks: 15

Note: 1. Attempt all questions. All questions carry marks, as shown against them.

- Q. No. 1:** Explain the structure of Machine learning in detail. Explain the 3 types of Learning in ML briefly. (5)
- Q. No.2:** Write short notes on: (5)
- Geometric Models
 - Logical Models
 - Probabilistic Models
- Q. No. 3:** Find the least square regression line for the following set of data: (5)
- $\{(-1, 0), (0, 2), (1, 4), (2, 5)\}$
- Plot the given points and the regression line in the same rectangular system of axes.

Harcourt Butler Technical University, Kanpur
First Mid-Semester Examination 2022-2023
Class & Branch- FCSE/FIT
Distributed System (ECS-466)

MM: 15.

Time: 1 Hour

Note: 1. All questions are compulsory
2. All questions carry equal mark (3*5)

- Q1. What do you mean by Distributed System? Explain the limitations of distributed system.
- Q2. What is mutual exclusion theorem? Describe the requirement of mutual exclusion theorem.
- Q3. Differentiate between token based and non-token based algorithm.
- Q4. Explain agreement problem with suitable example. Also describe its applications.
- Q5. Explain Deadlock prevention technique with example.