FACULTY OF ENGINEERING, UNIVERSITY OF LUCKNOW
Mid-Term Test - I
B.Tech. SEMESTER - VI, 2023-24
Branch: AI 3rd year

Student's Roll No..

Subject Code: AI-601 **Subject Title: Essentials of Machine Learning**

Time: 1 Hrs. **Full Marks: 20**

Note: Attempt questions from each section as per instructions. The symbols have their usual meaning.

SECTION A

1. **Attempt all parts of this question. Each part carries 1 mark.** (1 x5=5)

   a) What is Unsupervised Learning.
   b) What is 'Training set' and 'Test set'?
   c) What is standard approach to supervised Learning.
   d) List down approaches for machine Learning.
   e) List the function of 'Supervised Learning'.

SECTION B

Attempt any THREE questions of the following. Each question carries 5 marks.

(5 x 3=15)

2. Why are validation and test data sets needed?

3. What is bias and variance in machine learning.

4. What are the unsupervised machine learning techniques.

5. What are the three stages of building a model in machine learning.