

School of University Polytechnic**Diploma in Computer Science and Engineering
Semester End Examination - Jun 2024****Duration : 180 Minutes
Max Marks : 100****Sem IV - N1DC401B - Machine Learning and Its Application**General Instructions*Answer to the specific question asked**Draw neat, labelled diagrams wherever necessary**Approved data hand books are allowed subject to verification by the Invigilator*

- | | | |
|-----|--|--------|
| 1) | Define clustering in machine learning. | K1(2) |
| 2) | Explain various learning techniques involved in supervised learning. | K2(4) |
| 3) | Explain different Types of data in Machine Learning with example. | K2(6) |
| 4) | Illustrate the difference between list and tuple in Python with example. | K3(9) |
| 5) | Illustrate the following Conditional statements in Python with suitable examples. (i) if statement (ii) if else statement (iii) if – elif – else statement | K3(9) |
| 6) | Explain how different types of data can be imported in python with example. | K5(10) |
| 7) | Explain the importance of data science and deep learning. | K4(12) |
| 8) | Examine the steps in Random Forest algorithm with example. | K5(15) |
| 9) | Examine the steps in K-Means Clustering with example. | K5(15) |
| 10) | Discuss the markov decision process in machine learning. | K6(18) |