**Malla Reddy Engineering College (A)**

**Department of Information Technology**

**Year/Sem**: III B.Tech/II-Sem **Regulation**:MR 18

**Name of the Subject:** Machine Learning **Name of the Faculty: Dr. A. Vijendar**

**Mid-1 Question Bank**

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| **Q. No** | **Module I** | **Bloom’s Taxonomy Level** | **CO** |
| 1 | Illustrate Applications Basics of Python Programming Using the REPL (Shell) Running Python Scripts | Remembering | 1 |
| Or |  |  |
|  Explain the Identifiers, Keywords, Statements, Expressions, and Variables in Python programming language with examples. | Understanding | 1 |
| 2 | Explain the basic data types available in Python with examples. | Understanding | 1 |
| Or |  |  |
| 1. Explain the use of join() and split() string methods with examples.
2. Describe why strings are immutable with an example.
 | Understanding | 1 |
| 3 | Explain Input-Output functions in python? | Understanding | 1 |
| Or |  |  |
| What is variable? What are the rules and conventions for declaring a variable? | Remembering | 1 |
| 4 | Construct a program to convert Celsius to Fahrenheit | Applying | 1 |
| Or |  |  |
| Construct a python program to calculate area of triangle and circle and print the result. Take input from user | Applying | 1 |
| **Q. No** | **Module II** | **Bloom’s Taxonomy Level** | **CO** |
| 5 | Explain about concept learning with suitable example? | Understanding | 2 |
| Or |  |  |
| Explain about Find-s algorithm with example? | Remembering | 2 |
| 6 | Discuss about version space and candidate elimination algorithm? | Remembering | 2 |
| Or |  |  |
| What is a decision tree? And explain about decision tree algorithm? | Applying | 2 |
| 7 | What is the inductive bias? Explain an inductive bias in Decision tree algorithm? | Applying | 2 |
| Or |  |  |
| What are the neural network representations and problems in neural networks? | Applying | 2 |
| 8 | Explain about perceptron in ANN? | Remembering | 2 |
| Or |  |  |
| Explain about multi layer network and back propagation algorithm? | Understanding | 2 |
| **Q. No** | **Module III** | **Bloom’s Taxonomy Level** | **CO** |
| 9 | Explain about Bayesian learning with appropriate examples. | Understanding | 3 |
| Or |  |  |
| Explain about sampling theory in ANN? | Understanding | 3 |
| 10 | Discuss about estimation hypothesis accuracy? | Understanding | 3 |
| Or |  |  |
| Explain about maximum likelihood and least squared error hypothesis? | Understanding | 3 |