|  |  |
| --- | --- |
| **Unit Test: I** | |
| **Department of First Year Engineering**  **Course name & code: Programming and Problem Solving (PCC-151-ITT)**  **(2024 course)** | |
| Date: 05/04/2025 | Class: F.E |
| Course Teacher: Prof. Ashwini A. Patil | Semester: I, A.Y.: 2024-25 |
| Time: 01 hr. | Max Marks: 30 |
| ***Note: All questions are compulsory*** |  |

**Course Outcomes**

|  |  |  |
| --- | --- | --- |
| **CO1** | |  | | --- | | Inculcate and apply various skills in problem solving. | |
| **CO2** | Choose appropriate programming constructs and features to solve the problems in diversified domains. |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Q. No.** | | **Question** | **Marks** | **CO** | **PO** |
| **Q1** | **a)** | What is Problem? Explain types of problems. | **05** | **CO1** | **PO1, PO2,PO3,PO4** |
| **b)** | Explain any five Features of Python. | **05** | **CO1** | **PO1, PO2,PO3,PO4** |
| **c)** | What is programming paradigm? Explain the following programming paradigms in detail  i)Monolithic programming  ii)Procedural programming. | **05** | **CO1** | **PO1, PO2,PO3,PO4** |
| **Q2** | **a)** | Explain nested if and if-elif-else statement with example. | **05** | **CO2** | **PO1, PO2,PO3,PO4** |
| **b)** | Write a python program to check whether given number is even or odd. | **05** | **CO2** | **PO1, PO2,PO3,PO4** |
| **c)** | What is list? Explain the following operations on list.  i)Creating a list ii)Display list iii)Appending iv)Accessing an element. | **05** | **CO2** | **PO1, PO2,PO3,PO4** |