

**IMSc (CSF) (NEP) Sem.-3 Examination****MDC-ICSF-234T****Python Programming****November-2025****Time : 1-00 Hour]****[Max. Marks : 25****Question 1: Answer the following questions:**

- i. Explain the concept of Python lists and tuples. How are they different? Provide examples. 5 Marks
- ii. Write a Python program to find the largest and smallest numbers in a given list. 5 Marks

**OR**

- i. What are Python functions? Explain with an example of a user-defined function. 5 Marks
- ii. Explain the use of conditional statements in Python. Write a program to check whether a number is even or odd. 5 Marks

**Question 2: Answer the following questions:**

- i. Write a Python program to connect to a MySQL database and check if the connection is successful. 5 Marks
- ii. Explain Method Overriding with an example. 5 Marks

**OR**

- i. What is Polymorphism? Explain the types of Polymorphism with an example. 5 Marks
- ii. Explain Classes and Objects in Python with an example. 5 Marks

**Questions 3: Attempt any five out of six.****5 Marks**

1. Write the extension of Python files.
2. What is the purpose of the print() function in Python?
3. Name any two basic data types in Python.
4. What is a class in Python?
5. How do you create an object of a class in Python?
6. What is an exception in Python?

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