

# ***Test on Python Basics (20 Marks)***

**Section A: One-Word Questions (1 Mark Each)** Answer each question in one word or a short phrase.

1. What is the default separator in the print() function?
2. Mention one difference between mutable and immutable data types.
3. Which function is used to take a string input from the user?
4. Provide an example of an immutable data type in Python.

**Section B: Short Answer Questions (2 Marks Each)** Answer each question briefly in 2-3 lines.

1. Explain the purpose of the end parameter in the print() function. Provide an example.
2. What is type casting? Write an example of converting a string to an integer.
3. Differentiate between the int and float data types in Python.
4. Write a Python program to print the value of a complex number.

**Section C: Code-Based Questions (3 Marks Each)** Write the output or the required code.

1. Write a Python program to convert an integer to a string and back to an integer. ( Also use eval () in Program )
2. Write a Python program that uses multiple arguments in a single print() function and demonstrates both the sep and end parameters.
3. Write a program to input a number from the user, cast it to a float, and print its square.
4. Identify whether the following data types are mutable or immutable:
  - String
  - Integer
  - Float
  - Complex Number
  - Dictionary
  - List
  - Set

**Section D: Project Questions (5 Marks Each)** Attempt ONE of the following.

**Project 1:** Write a Python program to accept the user's first name, last name, and age. Then print the following details using a formatted string:

Name: <first\_name> <last\_name> Age: Age after 5 years: <age + 5>

### Marking Scheme

- **Section A:** 4 marks (1 mark each)
- **Section B:** 8 marks (2 marks each)
- **Section C:** 6 marks (3 marks each)
- **Section D % Marks ( 1 each 5marks)**