



Term Evaluation (Even) Semester Examination March 2025

Roll no. 2492113.....

Name of the Course and semester: BCA 2

Name of the Paper: Fundamentals of Python Programming

Paper Code: TBC211

Time: 1.5 hour

Maximum Marks: 50

Note:

- (i) Answer all the questions by choosing any one of the sub questions
- (ii) Each question carries 10 marks.
- (iii) Please specify COs against each question.

Q1. (10 Marks) CO1

- a. Who is the creator of Python, and what were the primary objectives behind its development? Provide a brief overview of Python's evolution from its initial versions to the present.

OR

- b. Write short notes on any three

- (i) Indentation
- (ii) Multiline comments in python
- (iii) print()
- (iv) input()

Q2. (10 Marks) CO1, CO2

- a. What are the various numerical data types in Python? Describe each type with an example.

OR

- b. What is a module in Python? Create a custom module mathsample.py with functions for addition, subtraction, multiplication, and division. Import and use these functions in another script.

Q3. (10 Marks) CO1

- a. Write a Python program that prompts the user to enter a number and determines whether it is positive, negative, or zero using an if-elif-else statement.

OR

- b. Differentiate between a for loop and a while loop with suitable examples. Write a Python program that prints all even numbers from 1 to 20 using a for loop and range().

Q4. (10 Marks) CO1, CO2

- a. Write a Python program that converts a decimal number into binary, octal, and hexadecimal formats.

OR

- b. What are strings in Python? Explain how slicing works in Python strings with examples.

Q5. (10 Marks) CO2

- a. What are mutable and immutable data types in Python? Classify strings, lists, and dictionaries accordingly.

OR

- b. What is dictionary in python? how to create, access, update, delete and retrieve keys and values in dictionary?