



Term Evaluation (Odd) Semester Examination September 2025

Roll no.....

Name of the Course: BCA AIDS

Semester: I

Name of the Paper: Fundamentals of Python Programming

Paper Code: TBD 102 / **TBL 102**

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.

Q1.

a. Explain distinct features and application of python?

(10 Marks)

CO1

OR

b. Define the concept of variables in python. Write a python program to declare objects of different datatypes and display their value, type and object identity.

CO1

Q2.

(10 Marks)

a. What are the different data types in python. Differentiate between mutable and immutable datatypes in python. Classify all the datatypes in mutable and immutable.

CO1

OR

b. Write a python program to input a number and convert it into its binary equivalent.

CO2

Q3.

(10 Marks)

a. Write a python program to calculate the salary of a medical representative considering the sales bonus and incentives offered to him/her are based on the total sales. If the sales exceed or equal to Rs 1,00,000 follow the particulars of column 1, else follow column 2 to calculate salary.

CO2

| Column 1 | Column 2 |
|------------------------|------------------------|
| Basic=Rs 4000 | Basic=Rs 4000 |
| HRA=20% of Basic | HRA=10% of Basic |
| DA=110% of Basic | DA=110% of Basic |
| Conveyance=Rs 500 | Conveyance=Rs 500 |
| Incentive=10% of sales | Incentive= 5% of sales |

OR

b. List the different types of Looping statements in python. Explain with example of each type.

CO1

Q4.

(10 Marks)

a. Explain the various operators in python, with suitable example of each type.

CO1

OR

b. Write a python program to create a list of n elements (int type). Find the sum of the numbers of the list

CO2

Q5.

(10 Marks)

a. Write a python program to accept a string and add 'ing' at the end of a given string (length should be at least 3). If the given string already ends with 'ing', add 'ly' instead. If the length of string is less than three do not modify the string.

CO2

OR

b. Explain any five string methods used in python with proper example.

CO2