GAYATRI VIDYA PARISHAD COLLEGE OF ENGINEERING FOR WOMEN
(Autonomous)
(Affiliated to Andhra University, Visakhapatnam)
II B.Tech. - I Semester Regular Examinations, Nov – 2025
PYTHON PROGRAMING
(EEE Branch)
1. All questions carry equal marks
2. Must answer all parts of the question at one place

Time: 3Hrs.   **Max Marks: 70**

UNIT-I

1. a. Explain about applications of Python in different domains?   (7M)
    b. Define input & output statements? Write python program to add two numbers using input( ) ?(7M)

OR

2. a. Explain the historical development and necessity of Python programming?   (7M)
    b. Illustrate with an example the concept of indentation and its significance in Python?   (7M)

UNIT-II

3. a. Explain the different types of Python operators with examples?   (7M)
    b. Define Loops? Write a python program to find factorial of number using while loop?   (7M)

OR

4. a. Define Conditional Statements? Write a Python program using if-elif-else to categorize a number as positive, negative, or zero?   (7M)
    b. Explain about Membership & Identity Operator with examples?   (7M)

UNIT-III

5. a. Demonstrate slicing and indexing operations on lists and strings with examples   (7M)
    b. Explain dictionary operations such as adding, updating, and deleting key-value pairs with examples.   (7M)

OR

6. a. Write a short note on Advanced Data Structures in python?   (7M)
    b. What is comprehension? Write examples of list, set comprehensions?   (7M)

UNIT-IV

7. a. Explain different types of function arguments in python with examples?   (7M)
    b. Describe how to create and import modules in Python with examples?   (7M)

OR

8. a. Define a Lambda Function in Python and give an example of its usage with the filter() built-in function.   (7M)
    b. What is PIP in Python? Explain how packages are installed and managed using PIP?   (7M)

UNIT-V

9. a. Define classes and objects? Illustrate with a program defining a class and creating objects? (7M)
    b. How does Python handle exceptions using try-except-finally blocks?   (7M)

OR

10. a. What is Inheritance? Explain different types of Inheritances in python?   (7M)
    b. Explain about file handling operations in Python?   (7M)