



B.Tech V Semester Regular Examinations, December 2024
PYTHON PROGRAMMING

(ECE)

Maximum Marks: 60

Date: 06.01.2025

Duration: 3 hours

- Note:**
1. This question paper contains two parts A and B.
 2. Part A is compulsory which carries 10 marks. Answer all questions in Part A.
 3. Part B consists of 5 Units. Answer any one full question from each unit.
 4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A		CO	Bloom Tx
All the following questions carry equal marks (10X1M=10 Marks)			
1.a)	Explain the concept of indentation in Python.	1	L2
b)	Write a Python script to print "Hello, World!" to the console.	1	L2
c)	Explain the order of precedence of operators in Python.	2	L3
d)	Implement a for loop to print the first 10 natural numbers.	2	L3
e)	What is the difference between global and local variables?	3	L2
f)	Define a function in Python and explain its purpose.	3	L2
g)	How do you open and close a file in Python?	4	L3
h)	What is a module in Python? How do you import a module?	4	L2
i)	What is the purpose of the "self" keyword in Python?	5	L2
j)	Explain the concept of inheritance in Python.	5	L2
Part-B			
Answer All the following questions. (5X10M=50Marks)		CO	Bloom Tx
2	a) What is a keyword and list the keyword with example. [5M] b) What are the features and applications of Python? [5M]	1	L2 L2
OR			
3	Write a Python script to calculate the area and perimeter of a rectangle, taking input from the user. [10M]	1	L3
4	Classify various types of operators in Python and write any 4 types of operators. [10M]	2	L3
OR			
5	a) Create a Python program to display Fibonacci series. [5M] b) Explain break and continue statement with the help of for loop with an example. [5M]	2	L6 L2
6	a) Create recursive function to find factorial of a number [5M] b) Write a function to return right most digit in the entered number [5M]	3	L6 L3
OR			
7	a) Define list and explain its method with suitable examples. [5M] b) Define Variable-length arguments? Explain with example. [5M]	3	L3 L2

8	a) Explain in detail about Python Files, its types, functions and operations that can be performed on files with examples. [5M] b) Explain about the reading files in python. [5M]	4	L3 L4
	OR		
9	a) What are packages? Give an example of package creation in Python. [5M] b) Explain about the from import statement in modules. [5M]	4	L3 L3
10	a) Define class and object with example code. [5M] b) Illustrate about default arguments with example. [5M]	5	L3 L3
	OR		
11	What is exception handling and explain try and except block with a program. [10M]	5	L3