Course Code: 24BC3T07

BONAM VENKATA CHALAMAYYA INSTITUTE OF TECHNOLOGY & SCIENCE

(AUTONOMOUS)

II - BCA I-Semester Supplementary Examinations (BR24),May - 2026

PYTHON PROGRAMMING (BCA)

Time: 3 hours | Max. Marks: 70

Question Paper consists of Part-A and Part-B
*Answer **ALL** the question in **Part-A andPart-B***

PART–A (10X2 = 20M)

		Marks	CO	BL
1. a)	What is Python? Mention any two important features of Python.	(2M)	CO1	BL1
b)	What are keywords in Python? Give any two examples.	(2M)	CO1	BL1
c)	List any four built-in data types in Python.	(2M)	CO2	BL1
d)	What is operator precedence?	(2M)	CO2	BL1
e)	What is a dictionary in Python?	(2M)	CO3	BL1
f)	What is comprehension in Python?	(2M)	CO3	BL1
g)	Write the syntax for defining a function in Python.	(2M)	CO4	BL1
h)	Distinguish between local and global variables.	(2M)	CO4	BL4
i)	What is the difference between an error and an exception?	(2M)	CO5	BL1
j)	What is a user-defined exception?	(2M)	CO5	BL1

PART–B (5X10 = 50M)

2a.	Explain any five major applications of Python in real-world domains.	5(M)	CO1	BL2
b.	Discuss the important features of Python.	5(M)		
	(OR)			
3a.	Explain variables and assignment statements in Python with examples.	5(M)	CO1	BL3
b.	Explain the steps involved in running a Python script.	5(M)		
4a.	Define expressions in Python. Explain different types of expressions.	5(M)	CO2	BL1
b.	Discuss the role of data types in expression evaluation.	5(M)		BL6
	(OR)			
5a.	Explain different built-in data types in Python with examples.	5(M)	CO2	BL2
b.	Write short notes on mutable and immutable data types.	5(M)		
6a.	Explain Python lists and their basic operations with examples.	5(M)	CO3	BL3
b.	Explain list slicing with suitable examples.	5(M)		
	(OR)			
7a.	Explain sets in Python and their properties.	5(M)	CO3	BL3
b.	Explain set operations such as union, intersection and difference with examples.	5(M)		

8a.	Explain the advantages of using functions in Python programming.	5(M)	CO4	BL3
b.	Write a Python program using functions to perform basic arithmetic operations.	5(M)		
	(OR)			
9a.	Explain function returning values in Python with examples.	5(M)	CO4	BL3
b.	Write a Python function that returns multiple values and explain its working.	5(M)		
10a	Explain how to create a user-defined module in Python with an example.	5(M)	CO5	BL3
b.	Explain the use of the import statement with examples.	5(M)		
	(OR)			
11a	Explain Python packages and their advantages.	5(M)	CO5	BL3
b.	Describe the steps involved in creating and using a Python package.	5(M)		

****