

Subject

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Code:-

Subject:-

PYTHON PROGRAMMING

Roll No:-

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TECNIA INSTITUTE OF ADVANCED STUDIES

BCA

Class Test (2025-26)

Sem: 3rd

Set-1

Date:

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Time: -1:00 Hours

Max. Marks: 30

General Instructions:

- All Questions are compulsory. Answers should be brief and to the point.
- It comprises three sections, A, B, and C. You are to attempt all the sections.
- **Section A** – Question No -1 is Very Short Answers type carrying 2 marks each. You are required to answer ALL.
- **Section B**- Question No-3 is Short Answers type question carrying 5 marks each. You are required to attempt any TWO out of THREE questions given.
- **Section C**- Question No -4 is Long Answer type question carrying 10 marks each. You need to attempt anyone.
- Students are instructed to cross the blank sheets before handing over the answer sheet to the invigilator.
- No sheet should be left blank. Any written material after a blank sheet will not be evaluated /checked.

		CO	BT	M
	SECTION –A			(10)
1.	Attempt All of the following.			(5*2=10)
	a. Discuss how Python achieves platform independence.	CO1	L1,L2	
	b. Explain the difference between mutable and immutable data types in Python with examples.	CO3	L3	
	c. Explain how Python differs from other high-level programming languages.	CO1	L1,L3	
	d. Write a code to show relational operators in python	CO3	L1,L2,L3	
	e. Write a program to find whether a number given by user is prime no. or not.	CO2	L1,L2,L3	
	SECTION –B			
2.	Answer any Two of the following.			(2*5=10)
	a. Explain the difference between logical operators and membership operators in Python with suitable programming examples.	CO1	L4	
	b. Given the string " COMPUTER PROGRAMMING ", perform and write the output for the following slicing operations: string[0:10:2], string[-4:-15:-3], string[:9], string[8:], string[:::-2], string[3:17:3]	CO1	L5	
	c. Write a Python program using a while loop to find the sum of digits of a number entered by the user.	CO2	L3	
	SECTION –C			

3.	Answer any <u>One</u> of the following.			(1*10=10)
a.	Write a Python program to demonstrate the working of append(), extend(), insert(), count(),pop()and remove() methods on a list of numbers.	CO3	L6	
b.	Explain the following dictionary methods with examples: get(), popitem(), fromkeys(), copy(), and update().	CO3	L8,L9	