

Subject

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| B | C | A | - | 2 | 0 | 1 | | | | |
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 Code:-

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| PYTHON PROGRAMMING | | | | | | | | | |
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 Subject:-Roll

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 No:-**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. Compare Python with any other high-level language in terms of syntax, memory management, and usability. | CO1 | L1,L2 | |
| | b. Write a Python program to compare the ages of two people entered by the user. | CO3 | L3 | |
| | c. Define immutability in Python and give two immutable data types. | CO1 | L1,L3 | |
| | d. Write a code to show any 3 string functions in python. | CO3 | L1,L2,L3 | |
| | e. Write a program to find Fibonacci series | CO2 | L1,L2,L3 | |
| | SECTION –B | | | |
| 2. | Answer any Two of the following. | | | (2*5=10) |
| | a. Explain the nesting of loops and find the largest of three numbers. | CO1 | L4 | |
| | b. Given the string "PYTHON PROGRAMMING", perform and write the output for the following slicing operations: string[0:10:2], string[-5:-16:-2], string[:6], string[7:], string[::2], string[2:15:3] | 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 One of the following. | | | (1*10=10) |
| | a. Write a Python program to demonstrate the working of append(), | CO3 | L6 | |

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| | | extend(), insert(), count(),pop()and remove() methods on a list of numbers. | | | |
| | b. | Explain the following dictionary methods with examples: get(), popitem(), fromkeys(), copy(), and update(). | CO3 | L8,L9 | |