



# Avinashilingam Institute for Home Science and Higher Education for Women

(Deemed to be University Estd. u/s 3 of UGC Act 1956, Category 'A' by MHRD)  
Re-accredited with 'A++' Grade by NAAC. Recognised by UGC Under Section 12B  
Coimbatore - 641 043, Tamil Nadu, India

## Continuous Internal Assessment Test- II October 2025 Semester V

**Class: III UG**  
**Major: Computer Applications**

**Time: 2 Hrs**  
**Maximum Marks:60**

### 23BCAC10 Programming in Python

#### Course Outcomes:

1. Learn the basics of python programming constructs.
2. Develop program using control statements in Python.
3. Express the concept of function, strings and modules.
4. Illustrate with List, tuples and dictionary.
5. Usage of File handlings concepts in Python

#### Part-A

#### Choose the correct answer

6x1=6

1. What will be the output of the following Python code? CO3K4  

```
my_string = "Hello World"  
print(my_string[6:])
```

a) Hello                      b) World                      c) W                      d) blank
2. Which of the following is true about Python strings? CO3K2  
a) Strings are mutable.                      b) Strings are immutable.  
c) Strings can be modified directly by index.                      d) String length cannot be determined
3. How do you add an element to the end of a Python list? CO4K2  
a) my\_list.insert(element)                      b) my\_list.add(element)  
c) my\_list.append(element)                      d) my\_list.extend(element)
4. Which of the following is a correct way to define a tuple in Python? CO4K4  
a) my\_tuple = []                      b) my\_tuple = {1, 2, 3}  
c) my\_tuple = (1, 2, 3)                      d) my\_tuple = "1, 2, 3"
5. What will be the output of the following code? CO5K5  

```
d = {"a": 1, "b": 2}  
d.update({"c": 3, "a": 4})  
print(d)
```

a) {'a': 1, 'b': 2, 'c': 3}                      b) {'a': 4, 'b': 2, 'c': 3}  
c) {'b': 2, 'c': 3, 'a': 4}                      d) Error
6. The function used to open a file in Python for reading is CO5K2  
a) open\_file()                      b) fileopen()                      c) open()                      d) file()

**Part-B**

JX0-10

**Answer ALL Questions**

**Answer should not exceed 400 words or two pages**

- |  |       |
|--|-------|
| 7. a. Write notes on strings.  | CO3K2 |
| (Or)   |       |
| 7. b. Explain in brief Namespace in Python.                              | CO3K3 |
| 8. a. Give the syntax of any three methods in List.                      | CO4K2 |
| (Or)   |       |
| 8. b. Differentiate between list and tuple data structures.              | CO4K3 |
| 9. a. Write about the types of files and file operations.                | CO5K2 |
| (Or)   |       |
| 9. b. Write a program using "with" keyword in file and explain in brief. | CO5K4 |

**Part-C**

**3x12=36**

**Answer ALL Questions**

**Answer should not exceed 800 words or four pages**

- |   |       |
|---|-------|
| 10. a. Elucidate any six string functions in Python.                              | CO3K3 |
| (Or)  |       |
| 10. b. Write a python program to calculate area of different shapes using module. | CO3K5 |
| 11. a. Explain Tuples in detail with suitable examples.                           | CO4K4 |
| (Or)  |       |
| 11. b. Write notes on Dictionary.   | CO4K3 |
| 12. a. Explain various file methods used in Python.                               | CO5K3 |
| (Or)  |       |
| 12. b. Write a python program to write into and read from a given file.           | CO5K5 |

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**Staff in-charge: S.Anitha**

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