Avinashilingam Institute for Home science and Higher Education for Women
(Deemed to be University under Category 'A' by MHRD, Estd. u/s 3 of UGC Act 1956)
Re-accredited with A++ Grade by NAAC. Recognised by UGC Under Section 12B
Coimbatore - 641 043, Tamil Nadu, India
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Continuous Internal Assessment Test I – August 2025
SEMESTER III

Class : II UG **Time : 2 hours**
Major : All UG **Max. Marks: 60**

General Elective Course
23BITGE2 Python for Beginners

CO1: Demonstrate the working environment of Python
CO2: Develop programs using conditional statements, looping constructs and functions
CO3: Develop lists, tuples, dictionaries and sets in Python
CO4: Identify and debug errors in the program
CO5: Visualize data in different formats

Part A **6 X1 =6**

Choose the correct answer

1. Which of the following is NOT a built-in data type in Python? CO1 K2
   a. List b. Tuples c. Array d. Dictionary
2. What will be the output of the following code? CO1 K5

```
for i in range(3):
 print(i)
```

   a. 0 1 2 3 b. 0 1 2 c. 1 2 3 d. 3 2 1

3. What does the string method .join() do in Python? CO2 K3
   a. Splits a string into a list b. Concatenates a list of strings into one string
   c. Reverses a string d. Returns the index of a substring in the string

4. What will be the output of the following code? CO2 K2

```
def func(x, y=10):
        return x + y
print(func(5))
```

   a. 5 b. 10 c. 15 d. None
5. Which method can be used to remove a specified item from a python list? CO3 K5
   a. remove() b. delete() c. del() d. eliminate()
6. What will be the output of the following python code? CO3 K5

```
thislist = ["apple", "banana", "cherry"]
print(len(thislist))
```

   a. 4 b. 3 c. 2 d. 5

Part B **3 x 6 = 18**

Answer the following

Each answer should not exceed 400 words or two pages

7. a. Discuss Python's built-in data types. Provide examples of how each data type can be used.
   (Or) CO1 K4
   b. Write a short note on Python Programming and its advantages. CO1 K5

8. a. Write a Python program to Count and print the number of occurrences of the letter in a string. CO2K4
   (Or)
   b. Construct a Python program that demonstrates basic string operations. CO2 K4

9. a. Explain recursion function in Python. List out the advantages and limitations of Python functions CO2 K4

(Or)

b. Define python list. Demonstrate how to create a list and access the list elements.CO3 K5

Part C **3 x 12 = 36**

Answer ALL questions

Each answer should not exceed 800 words or four pages

10. a. List and describe the different types of operators in Python, providing an example for each. CO1 K4

(or)

b. Illustrate looping constructs in Python programming with examples. CO1 K4

11. a. List out any six string functions in Python and give descriptions, syntax and example for each. CO2 K5

(or)

b. Illustrate about passing a list as an argument to a Python Function. CO2 K5

12. a. How do you sort a python list in both ascending order and descending order? Demonstrate with examples. Compare sort() and sorted() methods. CO3 K5

(or)

b. Illustrate built-in list methods in python with examples. CO3 K5

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