



*K. Sambal*

# Avinashilingam Institute for Home Science and Higher Education for Women

Deemed to be University Estd. u/s 3of UGC Act 1956, Category A by MHRD (now MoE)

Re-accredited with an A++ Grade by NAAC CGPA 3.65/4, Category I by UGC

Coimbatore - 641043, Tamil Nadu, India

## Continuous Internal Assessment II –October 2025

### III Semester

Class : II UG

Major : B.Com (With Minor Specialization – IT)

Time : 2 Hours

Max. Marks : 60

### 23BCOSE1IT- Python Programming

#### Course Outcomes:

CO3:Design the programs with the use of Python lists and dictionaries

CO4: Adopt file and exception handling mechanisms

CO5:Ability to build python program to solve real world problems.

#### Part A

6 x 1 = 6

#### Choose the Correct Answer

- Which of the following is NOT a valid Python function definition?  
a) def func(): pass  
b) def 1func(): pass  
c) def func\_name(a=1): pass  
d) def func\_name(\*args): pass  
CO3K2
- What does the \*args syntax do in a function definition?  
a) Accepts exactly one argument  
b) Accepts keyword arguments  
c) Accepts a variable number of positional arguments  
d) Ignores all arguments  
CO3K1
- What will len([[[]],[[]],[[]]])return?  
a) 3  
b) 4  
c) 2  
d) 1  
CO4K1
- Which of these string methods returns the position of a substring?  
a) replace()  
b) index()  
c) split()  
d) strip()  
CO4K2
- Which block must always be used with try?  
a) except  
b) else  
c) finally  
d) None  
CO5K2
- Which statement is used to define a user-defined exception?  
a) raise  
b) except  
c) class MyException(Exception):  
d) Both A and C  
CO5K2

#### Part B

6 x 3 = 18

#### Answer the Following

- a) Explain the different types of functions in Python with examples..  
(or)  
b) Write a Python program using a user-defined function to check if a number is prime.  
CO3K2  
CO3K3
- a) Explain in brief on the Strings and Strings formatting.  
(or)  
b) Write a program of your choice for Tuple list.  
CO4K2  
CO4K3
- a) Write a note on Exceptions with Argument in Python.  
(or)  
b) Explain the User Defined Exceptions with examples.  
CO5K2  
CO5K2

#### Part C

12 x 3 = 36

#### Answer the Following

- a) Explain the default arguments in Python functions with examples  
(or)  
b) Write a Python program using a recursive function to find the factorial of a number.  
CO3K1  
CO3K3
- a) Write a Python program to find the second largest number in a list without using built-in max() function.  
(or)  
b) Explain how slicing works with strings and lists, Give an examples of various slice operations.  
CO4K2  
CO4K2
- a) What is exception handling in Python. Explain the types of exception handling in detail.  
(or)  
b) Differentiate between raising an exception and catching an exception.  
CO5K2  
CO5K2

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