

**CERTIFICATE IN MOBILE
APPLICATION DEVELOPMENT
(CMAD)**

Term-End Examination

June, 2026

BCS-094 : PROGRAMMING USING PYTHON

Time : 3 Hours

Maximum Marks : 75

Note : *Question No. 1 is compulsory. Attempt
any **three** questions from the rest.*

1. (a) What is a programming language ?
Why Python is called high
level language. What is Python
interpreter ? 6
- (b) Write a Python program to find the
sum of three given numbers. Also
display the largest among these
numbers. 6

- (c) Explain how to find the data type of a given value in Python with the help of an example. 4
 - (d) Write a Python program which ask for age of a person as input and display “You are a senior citizen”, if the age is more than 64 years. 4
 - (e) Using while loop write a Python program to find the sum of first 10 numbers. 4
 - (f) What is software testing ? How does it relate to software reliability ? Explain functional testing. 6
2. (a) What is method overriding ? Explain how is it implemented in Python with the help of a program ? 7
- (b) What is a GUI library for Python ? Explain how to create GUI using Tkinter. 8
3. (a) What are different layouts in Kivy ? Write python code to apply the various Grid Layout. 7

- (b) Explain how class and methods are defined in Python with the help of example code. What is use of `_init_` method ? 8
4. (a) Differentiate between the following : 8
- (i) Alpha testing and Beta testing
 - (ii) Java and Python
- (b) Write short notes on the following : 7
- (i) SQL CRUD Statements
 - (ii) Open Source Python Libraries
5. Write short note on the following : 15
- (a) Data Encapsulation
 - (b) Lists in Python
 - (c) String in Python
 - (d) Profiling in Python
 - (e) Acceptance testing

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