CERTIFICATE IN MOBILE APPLICATION DEVELOPMENT (CMAD)

Term-End Examination June, 2023

BCS-094: PROGRAMMING USING PYTHON

Time: 3 Hours Maximum Marks: 75

Note: Questions no. 1 is compulsory. Attempt any three questions from the rest.

- (a) Discuss the usage of Break, Continue and Pass statements in Python, with suitable example code for each.
 - (b) What are Lambda functions? Write Lambda function to print the maximum of two numbers. Also, write the program to print the maximum of two numbers, without using Lambda functions.

- (c) Differentiate between mutable and immutable data types in Python. List mutable and immutable data types separately. Briefly discuss *one* mutable and *one* immutable data type.
- (d) What are programming language translators? Compare the types of programming language translators. 6
- (e) Briefly discuss the Syntax errors and Runtime errors, give suitable example of each.
- 2. (a) Briefly discuss the phases of writing a computer program. Compare the interactive mode and script mode of writing a Python Program, give example of each mode.
 - (b) What is Debugging? Differentiate between bdb and pdb modules for debugging. Write suitable code in python to illustrate the working of both bdb and pdb modules. 8

3.	(a)	What is software testing? Briefly discuss the various types of testing performed during software development.
	(b)	Write a python code to create a database file and a table name "work-details" with three columns "work-ID", "work-name" and "work-status". Support your code with suitable comments.
4.	(a)	Write steps to prepare the Kivy environment for application development.
	(b)	Write short notes on the following: 7
	(D)	(i) SQLCRUD statements
		(ii) Integrity constraints and its types
5.	(a)	What is WxPython? Create a GUI using WxPython that displays "You are welcome" message in the window. Support your code with suitable comments.
	(b)	Differentiate between the following: 8
		(i) Alpha testing and Beta testing

(ii) Acceptance testing and Installation

testing