BACHELOR OF COMPUTER APPLICATION Examination

BCA SEMESTER-5 NOVEMBER 2025 (NEP) NOVEMBER - 2025

CS –30: PROGRAMMING IN PYTHON

Faculty Code : 003

Subject Code : 23SI-BCAP-MA-05-12001

[Total Marks : 50

Time : 2 Hours]

Q.1
(A) Attempt the following. — **3**

(1) IDLE stands for _____

(2) Python was created by _____

(3) Python has a built-in function _____ to open a file

Q.1
(B) Attempt any one of the following. — **2**

(1) Explain TUPLE Datatype briefly

(2) Explain LIST Datatype briefly

Q.1
(C) Atempt any one of the following. — **5**

(1) Explain Files Handling with example

(2) Explain Function and Scoping with example

Q.2
(A) Attempt the following. — **3**

(1) An exception can be raised in program by using the _____ statement

(2) Class Constructor is declared as _____ in python

(3) ADT stands for _____

Q.2
(B) Attempt any one of the following. — **2**

(1) Explain Handling Exceptions in Python

(2) Explain Constructors in Python

Q.2
(C) Attempt any one of the following. — **5**

(1) Explain Inheritance with example

(2) What is Sorting-Algorithm? Explain any one algorithm with example

Q.3
(A) Attempt the following. — **3**

(1) The _____ function is specifically used for plotting data

(2) The _____ function is used to create a new figure

(3) The _____ function is used to save the current figure to an image or a vector graphic

Q.3
(B)   Attempt any one of the following.

(1) What is Memoization?

(2) Explain pylab.xlabel and pylab.ylabel

Q.3
(C)   Attempt any one of the following.

(1) Explain the 0/1 Knapsack Problem

(2) Explain Plotting Mortgages

Q.4
(A)   Attempt the following.

(1) _____ are the endpoints of a bidirectional communications channel

(2) UDP Stands for _____

(3) TCP Stands for _____

Q.4
(B)   Attempt any one of the following.

(1) Explain recv() and recvfrom() methods

(2) Explain send() and sendto() methods

Q.4
(C)   Attempt any one of the following.

(1) Explain Listbox widget with example

(2) Explain Combobox widget with example

Q.5
(A)   Attempt the following.

(1) _____ is a library for interacting with MySQL databases from Python

(2) _____ method is used to call existing procedures MySQL database

(3) _____ method is used to close the current cursor object

Q.5
(B)   Attempt any one of the following.

(1) Explain lastrowid and statement properties

(1) Explain column_names and description properties

Q.5
(C)   Attempt any one of the following.

(1) Explain execute() and executemany() methods with example

(2) Explain fetchmany() and fetchall() methods with example