



23SI-BCAP-MA-05-12001

Seat No. _____

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

Time : 2 Hours]

[Total Marks : 50

- Q.1 Attempt the following. 3
- (A) (1) IDLE stands for _____
(2) Python was created by _____
(3) Python has a built-in function _____ to open a file
- Q.1 Attempt any one of the following. 2
- (B) (1) Explain TUPLE Datatype briefly
(2) Explain LIST Datatype briefly
- Q.1 Attempt any one of the following. 5
- (C) (1) Explain Files Handling with example
(2) Explain Function and Scoping with example
- Q.2 Attempt the following. 3
- (A) (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 Attempt any one of the following. 2
- (B) (1) Explain Handling Exceptions in Python
(2) Explain Constructors in Python
- Q.2 Attempt any one of the following. 5
- (C) (1) Explain Inheritance with example
(2) What is Sorting-Algorithm? Explain any one algorithm with example
- Q.3 Attempt the following. 3
- (A) (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 Attempt any one of the following. 2
- (B)
- (1) What is Memoization?
 - (2) Explain pylab.xlabel and pylab.ylabel
- Q.3 Attempt any one of the following. 5
- (C)
- (1) Explain the 0/1 Knapsack Problem
 - (2) Explain Plotting Mortgages
- Q.4 Attempt the following. 3
- (A)
- (1) _____ are the endpoints of a bidirectional communications channel
 - (2) UDP Stands for _____
 - (3) TCP Stands for _____
- Q.4 Attempt any one of the following. 2
- (B)
- (1) Explain recv() and recvfrom() methods
 - (2) Explain send() and sendto() methods
- Q.4 Attempt any one of the following. 5
- (C)
- (1) Explain Listbox widget with example
 - (2) Explain Combobox widget with example
- Q.5 Attempt the following. 3
- (A)
- (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 Attempt any one of the following. 2
- (B)
- (1) Explain lastrowid and statement properties
 - (1) Explain column_names and description properties
- Q.5 Attempt any one of the following. 5
- (C)
- (1) Explain execute() and executemany() methods with example
 - (2) Explain fetchmany() and fetchall() methods with example