



003-3045002

Seat No. _____

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BACHELOR OF SCIENCE (INFORMATION TECHNOLOGY) (W.E.F. 2022) BSCIT (2022) Semester - 5 Examination

BSCIT (2022) SEMESTER-5 OCT-2024

CS – 26: PROGRAMMING IN PYTHON

Time : 2.5Hours]

[Total Marks : 70

1 (A) Answer the following:

4

- 1 Python is scripting language (TRUE / FALSE).
- 2 What is Tuple ?
- 3 Which character is used in Python to make a single line comment? ~~#~~
- 4 What is extension of python file? .py

(B) Answer in brief (Any one out of two)

2

- 1 What is List ?
- 2 Explain Variable (Global and Local).

(C) Answer in detail (Any one out of two)

3

- 1 Explain recursion with example
- 2 Explain Branching programs with suitable example.

(D) Write a note on (Any one out of two)

5

- 1 Explain any two iteration with suitable example.
- 2 What is Dictionaries? Explain with example.

2 (A) Answer the following:

4

- 1 Parent class is the class being inherited from also called ?
- 2 What is Exception ?
- 3 What is Assertions?
- 4 What is Hashtables ?

(B) Answer in brief (Any one out of two)

2

- 1 Explain exception handling in brief.
- 2 What is class ?

(C) Answer in detail (Any out of two)

3



- 1 What is Encapsulation ? Explain with example.
- 2 Explain binary search with example.

(D) Write a note on (Any one out of two)

- 1 Explain Hash tables with example.
- 2 What is inheritance? Explain multi level inheritance with example.

3 (A) Answer the following:

- 1 How to install PyLab modual ?
- 2 PyLab provides many of the facilities of
- 3 Which module of matplotlib library is required for plotting of graph?
- 4 Which function is used to display figure/chart in python ?

(B) Answer in brief (Any one out of two)

- 1 Explain pylab.title, pylab.xlabel and pylab.ylabel .
- 2 Explain pylab.show() with example.

(C) Answer in detail (Any one out of two)

- 1 Explain Fibonacci sequence.
- 2 What is subplot () ? Explain it.

(D) Write a note on (Any one out of two)

- 1 Explain the 0/1 Knapsack Problem
- 2 Explain Dynamic programming and divide and conquer in detail.

4 (A) Answer the following:

- 1 What is mainloop () ?
- 2 What is GUI ?
- 3 URL stands for
- 4 What is Socket ?

(B) Answer in brief (Any one out of two)

- 1 What is a dialog ?
- 2 What is an entry field ?

(C) Answer in detail (Any one out of two)

- 1 Explain Layouts.
- 2 Explain widget attributes in detail.

(D) Write a note on (Any one out of two)

- 1 Explain Two- Way communication between server and client in detail.

2 Explain nested frames with suitable example.

5 (A) Answer the following

4

- 1 Which method is used to execute the query in python?
- 2 Which module is import for database connectivity python code?
- 3 What does SQL stand for?
- 4 By default the order by clause sorts the result set in the Order.

(B) Answer In brief (Any one out of two)

2

- 1 What is MySQL Database?
- 2 Write a python code to Insert Row in a Table.

(C) Answer in detail (Any one out of two)

3

- 1 Write a python code to Updating and Deleting Rows into a Table.
- 2 Write a code to retrieve all data from the table.

(D) Write a note on (Any one out of two)

5

- 1 Write down steps to verifying the MySQL dB interface and installation steps in detail.
- 2 Write a python code to perform CRUD operation.