BACHELOR OF SCIENCE (INFO. & TECH.) Examination

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

CS –30: PROGRAMMING IN PYTHON

Faculty Code : 003

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

[Total Marks : 50]

Time : 2 Hours]

Q.1 (A) Attempt the following.   3

   (1) Python invented in_____.

   (2) The _____symbol is a shell prompt in Python?

   (3) Who is the the developer of Python?

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

   (1) What is Dictionary?

   (2) What is Function & Recursion Function?

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

   (1) Explain Iteration statements in python.

   (2) Write python code to demonstrate the types of UDF declaration.

Q.2 (A) Attempt the following.   3

   (1) _____exception catch all exception.

   (2) How uninstall the module in python?

   (3) IDLE stands for _____.

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

   (1) What is __init()__ method?

   (2) Explain assertion in python.

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

   (1) List and explain types of sorting? Explain any one Algorithm with example.

   (2) Explain python standard exception. With any one example.

Q.3 (A) Attempt the following.   3

   (1) Matplotlib has tools in _____.

   (2) How to check the python version?

   (3) Dynamic Programming invented by_____.

Q.3 (B) Attempt any one of the following.   2

   (1) Write a python code to draw simple plot with at least five points.

   (2) Explain pylab.title, pylab.xlabel, pylab.ylabel.

Q.3
(C) Attempt any one of the following.   5

(1) How to solve 0/1 knapsack problem using dynamic programming? Explain it with example.

(2) Explain Mortgages with example.

Q.4
(A) Attempt the following.   3

(1) UDP stands for_____.

(2) What is mainloop()?

(3) TCL stands for_____.

Q.4
(B) Attempt any one of the following.   2

(1) Write a code for download an image from internet.

(2) Explain Entry fields with example.

Q.4
(C) Attempt any one of the following.   5

(1) Explain two way communication between server and client in detail.

(2) What is a dialog? Explain all with examples.

Q.5
(A) Attempt the following.   3

(1) List out connection () function parameters.

(2) _____method executes a database query from within python.

(3) Which function is used to check the connection?

Q.5
(B) Attempt any one of the following.   2

(1) What is MySQL database?

(1) What is cursor? Which function is used to create a cursor?

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

(1) Write a script to connect to MySql database using Python.

(2) Write a python code to creating Python database (database name db_stud) and student table (table name – Stud_info) with fields grno, name, address, class and birthdate.