

B.Sc.-III (Information Technology) (CBCS Pattern) Semester - VI
UBITT603.1 / 004 - Paper-III (Elective-I) : Python Programming

P. Pages : 2

Time : Three Hours



GUG/S/23/13315

Max. Marks : 40

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- Notes : 1. All questions are compulsory and carry equal marks.
2. Draw neat and labelled diagram wherever necessary.
3. Avoid vague answers and write answer relevant and specific to questions only.

Either:

1. a) What is Python? Explain various Data types available in Python. 4
b) Write a Python program to find reverse of given number. 4

OR

- c) Explain following: 4
i) Variable declaration
ii) Arithmetic Operations.
d) Write a sample python program to demonstrate how to read data form keyboard. 4

Either:

2. a) What are conditional statements? Explain in detail. 4
b) Write a python program to find sum of prime numbers between 1 to 100. 4

OR

- c) What do you understand by string manipulation? Explain various string functions in detail. 4
d) Explain the concept of looping with suitable example. 4

Either:

3. a) What is function? Explain the advantages of function. 4
b) Define a class which has at least two methods. 4
a) getString: to get a string from console input
b) PrintString : to print the string in upper case. Also. please include simple test function to test the class methods.

OR

- c) Explain following: 4
 - i) Formal parameter
 - ii) Actual parameters
- d) Explain the concept of module. Also explain MATH and TIME module. 4

Either:

- 4. a) What do you understand by Exception? Explain Except Clause in detail. 4
- b) Write a program to demonstrate user defined exception. 4

OR

- c) Explain the concept of inheritance in detail. 4
- d) Write a sample program to demonstrate socket programming. 4

5. Attempt **all** the questions.

- a) Give the features of python in short. 2
- b) Write short note on collections. 2
- c) Write note on Anonymous Functions. 2
- d) Give short note on Regular Expression. 2
