

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

P. Pages : 2

Time : Three Hours



**GUG/W/23/13315**

Max. Marks : 40

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

**Either:**

1. a) Enlist and explain the features of python in detail. 4
- b) Explain the basic data types in python with examples. 4

**OR**

- c) Write python program to demonstrate the arithmetic operators. 4
- d) Demonstrate the rules of declaring variables in python. 4

**Either:**

2. a) Demonstrate the precedence of operators in python. 4
- b) Explain conditional statements in python with example of any one conditional statement. 4

**OR**

- c) Write a program in python to demonstrate for loop. 4
- d) What is string? Explain the concept of string manipulation in python. 4

**Either:**

3. a) Define function in python demonstrate the procedure of calling function. 4
- b) Differentiate between actual parameters and formal parameters. 4

**OR**

- c) What do you mean by scope of a variable? Explain global and local variables with example. 4
- d) Describe math module in python with example. 4

**Either:**

4. a) Explain the concept of exception handling in python. 4
- b) Write a detail note on user defined exception in python programming. 4

**OR**

- c) Write a program in python to demonstrate class and object. 4
- d) What is networking? How sockets are implemented in python programming? Explain in detail. 4
5. Solve all the questions.
- a) Write a note on Input- Output statements in python. 2
- b) Explain dictionary in python with example. 2
- c) Demonstrate Random module in python. 2
- d) Explain threads in python. 2

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