

M.Sc. - I (Computer Science) (NEP Pattern) Semester-I
NEP-22 / 01MSCCS02 - Paper-II - Python Programming

P. Pages : 2

Time : Three Hours



GUG/W/24/15079

Max. Marks : 80

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

Either:

1. a) Define python? Explain features of python in detail. 8
- b) Explain string manipulation in detail. 8

OR

- c) Describe Different Methods to Run python & explain Input & output in python. 8
- d) Explain any two control statement with appropriate example. 8

Either:

2. a) Define function. Explain it's type in detail. 8
- b) Define Exception Handling. Explain 8
 - i) User Define Exception.
 - ii) Raising Exception.

OR

- c) Explain following. 8
 - i) Built-in Exceptions.
 - ii) Argument of an Exception.
- d) Explain: 8
 - i) Index Error
 - ii) Runtime Error.
 - iii) Overflow Error.
 - iv) Zero Division Error.

Either:

3. a) Define modules? Explain in detail: 8
 - i) Built-In Modules.
 - ii) Creating Modules.
- b) Describe in detail: 8
 - i) Method overloading
 - ii) Operator overloading

OR

- c) Explain file Handling in detail with its functions? 8
- d) Define Inheritance. Explain following. 8
 - i) Multi-level Inheritance.
 - ii) Polymorphism.

Either:

- 4. a) Describe shape Manipulation in detail with its functions? 8
- b) Explain Data visualization in python & Describe about 8
 - i) Pyplat
 - ii) Scatter

OR

- c) Define Array in python & explain 8
 - i) Numpy Module
 - ii) Matplotlib module.
- d) Describe two dimension Arrays? Explain: 8
 - i) Indexing
 - ii) Iterating
 - iii) Splitting

5. Attempt all question compulsory.

- a) Discuss About Mutable & Immutable objects? 4
- b) Describe Advantage of functions? 4
- c) Discuss about Encapsulation & Data Hiding? 4
- d) Explain Arithmetic operation an Array with Appropriate example? 4
