**MCA Theory Assignment-II**

**Introduction to Python Programming**

1) What is exception handling? Explain type of exception and different blocks available in python for handling exception.
2) Explain the use of assert statement and user defined exception in detail.
3) Explain different file handling function? How you can read and write in text and binary file in python?
4) Explain different modes used with file.
5) Explain the use of tell() and seek().
6) What is the use of mmap? Explain with example.
7) Explain with statement and Pickle with file.
8) What is zip file? What is the advantage of zip file? How to create zip file in python?
9) Explain turtle module in detail.
10) Explain pandas module.
11) Explain Matplotlib module.
12) Explain Tkinter module.
13) What is constructor? Write a syntax to define in Python.
14) Write down the use of super() keyword.
15) Explain following in python with example:
    a. Encapsulation
    b. Abstraction
    c. Method Overloading
    d. Method Overriding
16) What is inner class? How we can create an object of inner class.
17) What is inheritance? Explain different types of inheritance in python.
18) What is Operator Overloading? How we can achieve Operator Overloading in python.
19) Explain following:
    a. MRO
    b. Duck typing philosophy of Python
20) Explain Abstract Classes & Methods.