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Total No. of Printed Pages: 1

Total No. of Questions: [11]

**MCA (Semester – 2<sup>nd</sup>)**  
**PROGRAMMING WITH PYTHON**  
**Subject Code: MCAPD1223**  
**Paper ID: [20270113]**

**Time: 03 Hours**

**Maximum Marks: 60**

**Instruction for candidates:**

1. Section A is compulsory. It carries 16 marks. It consists of 4 questions of 4 marks each.
2. Section B consist of 4 questions of 8 marks each. The student has to attempt any 3 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

**Section – A**

**(4 marks each)**

- Q1. Illustrate the different types of control flow statements available in Python with flowcharts.
- Q2. What do you understand by the term Iteration? How it is different from Recursion
- Q3. Explain the following list methods with an example. a) append () b) extend () c) insert () index ()
- Q4. What are modules and what is the benefit of them in Python using a suitable example.

**Section – B**

**(8 marks each)**

- Q5. Summarize various operators, built-in functions and standard library modules that deals with Python's numeric type.
- Q6. What is Inheritance, super class, sub class. Discuss it with reference to Multiple Inheritance.
- Q7. Discuss the concept of overriding. How it can be achieved in Python
- Q8. What do you understand by the term Iteration? How it is different from Recursion

**Section – C**

**(10 marks each)**

- Q9. Enumerate the various OOPs Characteristics in Python.
- Q10. Write a short note on Exception Handling in Python
- Q11. Write a function in python to count the number of lines in a text file 'STORY.TXT' which is starting with an alphabet 'A'.