**SESSIONAL EXAMINATION**

**DTC**

**THIRD SEMESTER [B.TECH] JAN’21**

**Paper Code: PCC-CSE 207G Subject: Python Programming  
rogramming**

**Time: One Hour Thirty Minutes Max. Marks: 30**

**Note: Attempt any *three* questions including Q.no. 1 which is compulsory. All questions carry equal marks.**

Q.1. Attempt any ***two*** from the following. (2 X 5 =10)

1. What is List? Explain any 5 built-in functions of List. Write a program to create a List and also insert and delete the elements from the List.
2. Explain the concept of recursive function. Write a recursive function to print the factorial of a no using recursion.
3. What is exception in Python? How does the python support exceptional handling? Explain with an example.
4. What is constructor? Also discuss the types of constructor with an example.
5. Explain Dictionary in Python with example. How to access the elements of a Dictionary? Clarify with example.

Q.2. (a) What is Class? Create a class Employee with data members name, department and salary. Create suitable methods for reading and printing employee information. (10)

OR

(b) What is function? Explain different types of arguments in function with example. Write a function to perform linear search of an element in the List. (10)

Q.3. (a) Illustrate method Overriding in inheritance with example. How operator overloading can be implemented in Python ? Give an example. (10)

OR

(b) Explain the concept of polymorphism with example. What is abstract class? Explain abstract class with example. (10)

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