



CENTRE FOR DEVELOPMENT OF IMAGING TECHNOLOGY
(Under Government of Kerala)
CEP EXAMINATION-FEBRUARY 2019
Subject: Object Oriented Programming Using C++
PGDCA I

Register No.

Time: 3 Hours
Maximum Marks:100

I. Fill in the blanks. Answer ALL questions.

(10 x 1 = 10)

1. _____ are variables of type Class.
2. A complex problem may be decomposed into a small or easily manageable portion or modules called _____
3. All class members are _____ by default.
4. Variables that can store non-numerical values that are longer than one single character are called _____
5. Derivation of a class from only one base class is called _____
6. _____ are used to initialize member variable of the object.
7. _____ is a variable that holds a memory address.
8. _____ can be invoked like normal function without the help of any object.
9. _____ is a collection of related data stored in a particular area on disk.
10. ADT stands for _____

II. Explain briefly. Answer any TEN questions.

(10 x 4 = 40)

1. Define a Variable. Briefly explain the rules for defining variable name.
2. Describe Input and Output Streams in C++.
3. Write a C++ program to add two matrices.
4. Write a C++ program to calculate Simple Interest.
5. Briefly explain about call by value and call by reference.
6. Write note on Storage Classes.

7. How member functions are defined?
8. Compare Structure versus Classes.
9. Define Operator Overloading.
10. Write note on Pointer. Difference between Pointer and Reference.
11. Define Friend Function.
12. Explain about Templates.
13. What is a Constructor?

III. Answer any FIVE questions. Explain in detail.

(5 x 10 = 50)

1. Explain in detail about various operators in C++.
2. Explain in detail about Arrays.
3. What are the different OOP's concepts?
4. Explain about Control Structures in C++.
5. What is Inheritance and explain different types of Inheritance?
6. Describe about various File Operations in C++.
7. Explain about C++ Stream Classes.
