

TED (15/19) 3134
(REVISION-2015/19)

A22-07623

Reg.No.....
Signature.....

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/
COMMERCIAL PRACTICE, APRIL - 2022**

OBJECT ORIENTED PROGRAMMING THROUGH C++

(Maximum Marks:100)

(Time: 3 Hours)

PART - A

(Maximum marks : 10)

Marks

I. Answer all the questions in one or two sentences. Each question carries 2 marks.

1. What are keywords? Give two examples.
2. Define enumerated data type in C++.
3. What is the use of Destructor? Write the syntax.
4. Define the terms “ Base class” and “Derived class”.
5. What is late binding? Give an example

(5 x 2 = 10)

PART - B

(Maximum Marks: 30)

II Answer *any five* questions from the following. Each question carries 6 marks.

1. Explain about multiple branching statement.
2. Write notes on stream classes used for disk I/O operations.
3. Describe data encapsulation and information hiding.
4. With the use of an example explain parameterized constructor.
5. How function with default argument is used in C++.
6. What are the rules for operator overloading.
7. What is the need of Virtual functions.
8. How multiple catch is implemented

(5 x 6 = 30)

PART - C

(Maximum marks: 60)

(Answer *one full* question from each unit. Each full question carries 15 marks.)

UNIT - 1

- III (a) Explain about primitive data types and Qualifiers in C++ (9)
- (b) Describe the concept of memory management in C++ (6)

OR

- IV (a) Develop a program to store and display name, register number, mark for 10 students. (9)
- (b) Write notes on Relational, Conditional and Bitwise operators (6)

UNIT – 2

- V (a) What are friend functions? Write a program to find maximum of two numbers using friend function for two different classes. (9)
- (b) Write notes on constructors. (6)

OR

- VI (a) Explain different argument passing methods with example program. (9)
- (b) Define inline functions and its necessity. (6)

UNIT – 3

- VII (a) Explain Multilevel inheritance with example (9)
- (b) Write notes on Virtual base class. (6)

OR

- VIII (a) Explain binary operator overloading with an example (9)
- (b) Explain visibility control in C++ (6)

UNIT – 4

- IX (a) What is Class template? Implement a class template to swap two values. (9)
- (b) Compare function overloading and overriding. (6)

OR

- X (a) Implement a function template to multiply two values. (9)
- (b) What are Exceptions? How exception handling is implemented. (6)

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