



## Avinashilingam Institute for Home Science and Higher Education for Women

(Deemed to be University under Category 'A' by MHRD, Estd. u/s 3 of UGC Act 1956)

Re-accredited with 'A+' Grade by NAAC. Recognised by UGC Under Section 12B

Coimbatore - 641 043, Tamil Nadu, India

### Master's Degree Examination – June / July 2021

#### II Semester

Class : I PG  
Major : M.Com CA

Time : 3 Hours  
Max. Marks: 100

#### 20MCCC10 Programming Language C++

##### Part- A

10 X 1 =10

##### Choose the Correct Answer

- Which of the following is the correct syntax to print the message in C++ language? CO1K1  
a. Cout<<"Hello world!";  
b. Cout<< Hello world! ;  
c. Out <<"Hello world!";  
d. None of the above
- Which of the following features must be supported by any programming language to become a pure object-oriented programming language? CO1K3  
a. Encapsulation  
b. Inheritance  
c. Polymorphism  
d. All the above
- Which of the following refers to characteristics of an array? CO2K1  
a. An array is a set of similar data items  
b. An array is a set of distinct data items  
c. An array can hold different types of data types  
d. None of the above
- \_\_\_\_\_ is a statement used to come out of a loop. CO2K3  
a. If  
b. break  
c. continue  
d. do
- Which of the following offers a programmer the facility of using a specific class object into other classes? CO3K3  
a. Polymorphism  
b. Abstraction  
c. Inheritance  
d. Composition
- In C++ language \_\_\_\_\_ function is constructor function. CO1K2  
a. Accessor  
b. Implementer  
c. Manger  
d. Programmer
- Virtual Function cannot have \_\_\_\_\_ members. CO4K1  
a. Object  
b. Class  
c. Static  
d. Function
- A derived class with one base class is called \_\_\_\_\_ inheritance CO3K4  
a. Simple  
b. Single  
c. Multiple  
d. None of the above
- Which operator is used to insert the data into file? CO5K4  
a. >>  
b. <<  
c. <  
d. None of the above
- Which is used to throw a exception? CO5K5  
a. Try  
b. Throw  
c. Catch  
d. None of the above

**Part- B**

**5 X 6 = 30**

**Answer ALL questions**

**Each answer should not exceed 400 words or two pages**

- 11.a. Explain the various operators available in C++. CO1K2  
(or)  
11.b. Discuss the Merits and Demerits of OOPs. CO1K2
- 12.a. Explain the Switch Statement with an example. CO2K2  
(or)  
12.b. Define Array in C++ and what are the types of Arrays ? CO2K1
- 13.a. Compare between a Class and an Object. Illustrate with an example. CO3K2  
(or)  
13.b. Discuss about Friend Functions and Friend Classes. CO3K2
- 14.a. Explain virtual base class with example. CO4K2  
(or)  
14.b. Discuss the rules for overloading operators. CO3K2
- 15.a. What are the types of Errors. CO5K3  
(or)  
15.b. What is an Exception in C++ Program? Why do we need to handle exceptions. CO5K5

**Part- C**

**5 X 12 = 60**

**Answer ALL questions**

**Each answer should not exceed 800 words or four pages**

- 16.a. Discuss the C++ data types. CO5K2  
(or)  
16.b. Discuss the Object Oriented Concepts with example. CO1K2
- 17.a. Explain the Control Flow Statements. CO2K2  
(or)  
17.b. Discuss about functions and Components of functions. CO3K2
- 18.a. Write a program to add two complex numbers using object as arguments. CO3K3  
(or)  
18.b. Explain Constructor and Constructor Overloading. CO3K3
- 19.a. Explain about virtual functions in detail. CO4K2  
(or)  
19.b. How overriding is different from the overloading. CO4K5
- 20.a. Examine the data File Operations. CO5K3  
(or)  
20.b. Explain various Exception handling methods with example. CO5K3

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