

Reg No.: _____

00000MR363121902 Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
Fifth semester B.Tech degree examinations (S) September 2020



Course Code: MR363

Course Name: OBJECT ORIENTED PROGRAMMING

Max. Marks: 100

Duration: 3 Hours

PART A

Answer all questions, each carries 5 marks.

- 1 What is the role of access Specifier in C++? (5)
- 2 How a parameterized constructor is useful in the C++ program? (5)
- 3 What are the rules for operator overloading with friend function and member function? (5)
- 4 How can you specify the exceptions in a C++ program? (5)
- 5 What is the syntax of pure virtual function? (5)
- 6 Define RTTI with an Example. (5)
- 7 What are the different File Opening Modes in C++? (5)
- 8 What are Formatted I/O functions and their use? (5)

PART B

Answer any three questions, each carries 10 marks.

- 9 a) Analyse the advantages of default arguments in a function with an example. (6)
b) Differentiate Class and Objects with its syntax. (4)
- 10 a) Illustrate the advantages of a Copy Constructor with an example. (6)
b) What do you meant by mutable data members? (4)
- 11 Write a program to find sum and average of N number. (10)
- 12 Write a C++ program that uses assignment operator as function. (10)
- 13 a) Differentiate Single try multiple catch and catch all paradigm. (6)
b) Analyse the advantage of function template with an example. (4)

PART C

Answer any two questions, each carries 15 marks.

- 14 a) Explain with example program in C++ how the keyword virtual is used to implement dynamic binding. (7)

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- b) Why virtual base class uses in c++? Explain with a simple example. (8)
- 15 a) Illustrate with a real life example how multiple inheritance is implemented in C++ programs. (7)
- b) Explain the usage of typeid operator in C++. (5)
- c) What are the types of polymorphism available in C++? (3)
- 16 a) Describe the Special File Access Functions in C++ with an example. (10)
- b) Write an example to show the input and output operations of streams. (5)
- 17 a) Explain object serialization with an example. (10)
- b) Explain the use of namespace. (5)
