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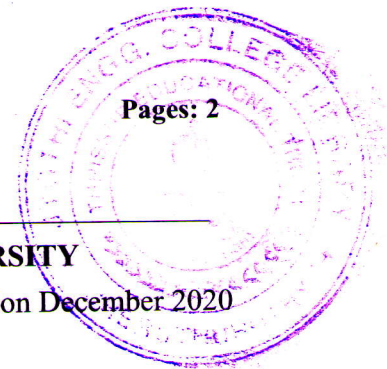
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Reg No.: \_\_\_\_\_

Name: \_\_\_\_\_

**APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY**

Fifth Semester B.Tech Degree Regular and Supplementary Examination December 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 Differentiate Class and Objects with its syntax. 5
- 2 What is a pointer? How it is useful when creating array of objects? 5
- 3 Give the syntax and use of member function in operator overloading. 5
- 4 Illustrate class template with an example. 5
- 5 Compare virtual function with pure virtual functions. 5
- 6 What is the process of dynamic casting? 5
- 7 Define streams and stream objects in C++. 5
- 8 Explain different formatting options in C++. 5

**PART B**

*Answer any three questions, each carries 10 marks.*

- 9 Write the use of Friend Function. Write down its syntax .Apply friend function for accessing members of a Class with an Example. 10
- 10 Write a program to show the use of a class by reading and displaying student details using two different member function. 10
- 11 Enumerate different type of constructors with example. 10
- 12 Elaborate unary operator overloading with an example. 10
- 13 Differentiate Single Try-Catch, Single Try-Multiple Catch, Nested Try-Catch paradigms of Exception Handling. 10

**PART C**

*Answer any two questions, each carries 15 marks.*

- 14 a) Explain different type of inheritance with real-time example. 10
- b) What is the need of abstract class in C++? 5
- 15 a) What is the significance of virtual base class? Analyse the cases with and without use of the key word virtual. 8

- b) Summarise the public and protected modes and the access specifier of the members of Base class in the subclass when derived in this modes with an example. 7
- 16 a) Briefly explain about the random access of the files using file pointers. 10
- b) Explain the use of namespace. 5
- 17 a) List and explain about String class functions and constructors in C++. 10
- b) List and explain any 3 manipulator function. 5

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