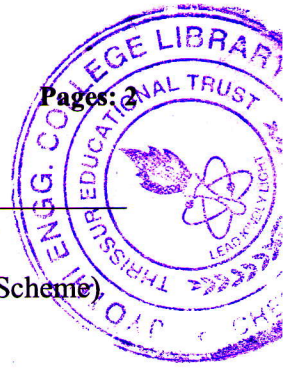


Reg No.: \_\_\_\_\_

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

**APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY**  
Fifth Semester B.Tech Degree (S,FE) Examination January 2022 (2015 Scheme)



**Course Code: MR363**

**Course Name: OBJECT ORIENTED PROGRAMMING**

Max. Marks: 100

Duration: 3 Hours

**PART A**

*Answer all questions, each carries 5 marks.*

- |   |                                                         |   |
|---|---------------------------------------------------------|---|
| 1 | Elucidate about the benefits of default argument in C++ | 5 |
| 2 | Illustrate properties of constructor function           | 5 |
| 3 | Analyse various methods for type conversion             | 5 |
| 4 | Illustrate function template with an example.           | 5 |
| 5 | What is the process of dynamic casting?                 | 5 |
| 6 | What is the need of abstract class in C++?              | 5 |
| 7 | List and explain any 5 manipulator function in C++      | 5 |
| 8 | Define streams and stream objects in C++.               | 5 |

**PART B**

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

- |    |                                                                              |    |
|----|------------------------------------------------------------------------------|----|
| 9  | Give a comparison for different access specifiers with example               | 10 |
| 10 | Write a program to find sum of squares of first N Number                     | 10 |
| 11 | Write a program to read and display 10 Address book using pointers to object | 10 |
| 12 | Elaborate binary operator overloading with friend function                   | 10 |
| 13 | Summarize the following                                                      | 10 |
|    | 1. Single Try-Catch                                                          |    |
|    | 2. Single Try-Multiple Catch,                                                |    |
|    | 3. Nested Try-Catch                                                          |    |

**PART C**

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

- |    |                                                                           |   |
|----|---------------------------------------------------------------------------|---|
| 14 | a) Explain in detail about the composite objects in Runtime Polymorphism. | 9 |
|    | b) Define RTTI with an Example.                                           | 6 |

- 15 a) What is the significance of virtual base class? Analyse the cases with and without use of the key word virtual. 9
- b) Explain multiple and multilevel of inheritance with real-time example 6
- 16 a) List and explain about String class functions and constructors in C++. 9
- b) Illustrate the file handling using file streams. 6
- 17 a) How many ways a namespace can be added to the program? 10
- b) List out and explain different steps for file I/O operation 5

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