

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

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

**APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY**

Fifth Semester B.Tech Degree (S, FE) Examination June 2024 (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.*

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|---|---|---|
| 1 | Differentiate between Class and Objects with an example.            | 5 |
| 2 | Explain how 'const' key word in C++ helps program.                  | 5 |
| 3 | What are the methods to convert a data type to another in the code? | 5 |
| 4 | Illustrate function template with an example.                       | 5 |
| 5 | What is virtual base class?   | 5 |
| 6 | Differentiate between static binding and dynamic binding.           | 5 |
| 7 | Illustrate the Conceptual Model for the Streams.                    | 5 |
| 8 | Explain different formatting options in C++.                        | 5 |

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

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|----|---|----|
| 9  | Discuss the features and advantages of Object Oriented Programming.     | 10 |
| 10 | Write a program to find the largest of N Number.                        | 10 |
| 11 | Explain how a parameterized constructor is useful in the C++ program.   | 10 |
| 12 | Write a program to show case operator overloading with friend function. | 10 |
| 13 | Enumerate different Try-Catch paradigms of Exception Handling.          | 10 |

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

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|----|---|----|
| 14 | a) Explain in detail about the composite objects in Runtime Polymorphism. | 10 |
|    | b) Define RTTI with an example.   | 5  |
| 15 | Explain different type of inheritance with real-time example.             | 15 |

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|----|--|----|
| 16 | Describe the File Access Functions in C++ with an example.             | 15 |
| 17 | a) List the functions used for Formatted I/O also explain its purpose. | 10 |
|    | b) List out and explain different steps for file I/O operation.        | 5  |

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