

School of Computing Science and Engineering

B.Tech CSE
ETE - Jun 2023

Time : 3 Hours

Marks : 100

Sem II - E2UC201C - OOPS

*Your answer should be specific to the question asked
Draw neat labeled diagrams wherever necessary*

1. Explain the concept of const data member, member function, and object with features and suitable program. K2 CO1 (5)
2. Implement a C++ program involving a function template. K3 CO2 (5)
3. Define Run-Time Type Information. Also list out its uses in C++. K1 CO1 (5)
4. List the utilization of Formatted I/O functions in C++ with suitable examples and syntax. Also define streams. K1 CO1 (10)
5. Explain the steps when a program detects an exception. Also explain throwing an exception manually with the help of a program. K2 CO1 (10)
6. Compare a member function and constructors in a class with program of each. Explain the concept of a constructor with its types and features. K4 CO3 (10)
- 7) Distinguish between different types of constructor with suitable programs. Explain the basics of destructor with its features. K4 CO3 (10)

OR

- Differentiate between overloading and overriding with its concepts, features and program. K4 CO3 (10)
- 8) Compare the structured programming and object-oriented programming with suitable program of each. K4 CO3 (15)

OR

- Differentiate between virtual and pure virtual function. Also evaluate the significance of virtual function in detail with the help of a program. K4 CO3 (15)
9. Implement a program to show the problem of function overriding. Also explain the possible solution of it. K3 CO2 (15)
 10. Implement a program to demonstrate the concept of operator overloading by overloading the unary operator and binary operator. Also Explain the concept of operator overloading. K3 CO2 (15)