School of Computing Science and Engineering
B.Tech CSE
ETE - JUNE 2024

Time : 3 Hours   Marks : 100

Sem II - BCS01T1006 - Object oriented Programming
Your answer should be specific to the question asked Draw
neat labeled diagrams wherever necessary

1. Define 'this' pointer, with an example. Indicate the steps involved in referring to members of the invoking object.   K1 CO1 (5)

2. Discuss the significance of friend function in object-based programming approach of problem solving with the help of a program.   K2 CO1 (5)

3. Implement a C++ program to create class template for multiple parameters.   K3 CO2 (5)

4. Define implicit and explicit type conversion by giving example. Also define abstract class with example.   K1 CO1 (10)

5. Discuss the exception handling mechanism in C++ with the help of a program. Explain different types of exceptions.   K2 CO1 (10)

6. Compare various ways of read and write from a file. Also create a program to concatenate two files content into a new file.   K4 CO3 (10)

7. Compare input output stream with file stream in detail with their purposes, and suitable program.   K4 CO3 (10)

OR

Differentiate between static and dynamic memory allocation with example of variables, and objects.   K4 CO3 (10)

8. Implement a program to use the operator overloading mechanism to overload + operator so that it can add two complex numbers. List out the operators which cannot be overloaded?   K3 CO2 (15)

9. Implement a program to find the addition of different data type(int , float, double) values using function overloading. Also Explain the concept of function overloading.   K3 CO2 (15)

10. Compare the implementation of multilevel Inheritance and multiple Inheritance.   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)