

Total number of printed pages:2 Programme(D)/5th Semester/DCSE503

2024

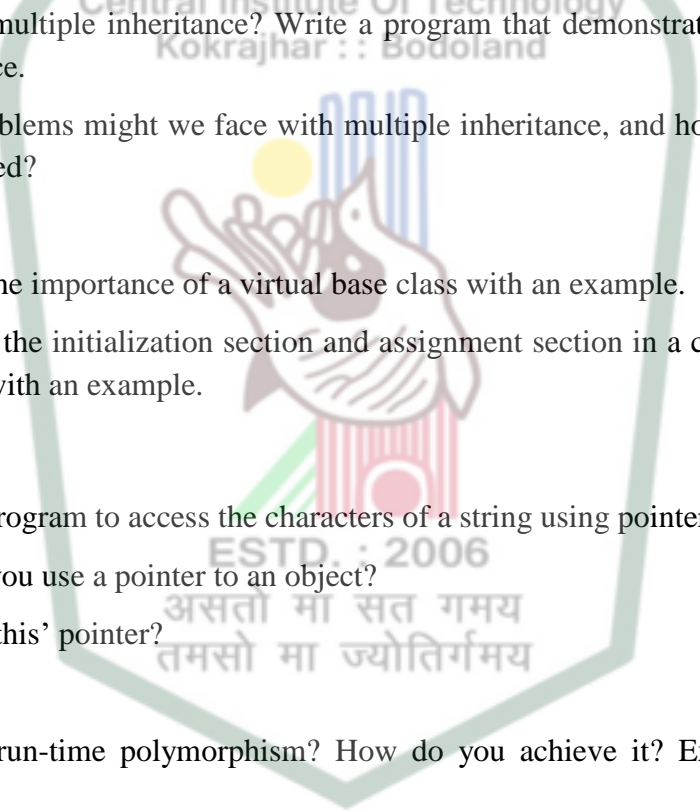
Object Oriented Programming with C++

Full Marks : 100

Time : Three hours

The figures in the margin indicate full marks for the questions.

Answer any five questions.

- 
1. a) What is multiple inheritance? Write a program that demonstrates multiple inheritance. 2+8
- b) What problems might we face with multiple inheritance, and how can they be resolved? 10
2. a) Explain the importance of a virtual base class with an example. 10
- b) What are the initialization section and assignment section in a constructor? Explain with an example. 10
3. a) Write a program to access the characters of a string using pointers. 10
- b) How do you use a pointer to an object? 5
- c) What is 'this' pointer? 5
4. a) What is run-time polymorphism? How do you achieve it? Explain with example. 10
- b) What is eof() function in file handling? Write a program to work with multiple files simultaneously. 10
5. a) Explain why templates are used in programming, with the help of an example. 10
- b) Write a function template for finding the minimum value contained in an array. 10

6. a) Can we have more than one catch block in a program? Justify your answer. 10
b) What is the use of catch(...) function in exception handling? Give examples. 10
7. Write short notes on 20
a) Pure virtual function
b) Recursion
c) Static member function
d) Operator overloading

