

Total No. of Printed Pages:2

SUBJECT CODE NO:- H-172
FACULTY OF SCIENCE AND TECHNOLOGY
S.E. (CSE/IT)
Object Oriented Programming
(REVISED)

[Time: Three Hours]

[Max.Marks:80]

Please check whether you have got the right question paper.

- N.B
1. Q.No.1 and Q.No.6 are compulsory.
 2. Solve any two from each section.

Section A

- | | | |
|-----|---|--------------|
| Q.1 | Solve any five: | 10 |
| | <ol style="list-style-type: none"> a) What is the structure of C++ program? b) What is the use of scope resolution operator : : in C++? c) Write any four characteristics of friend function. d) Write any four rules for overloading operators. e) How does constructor differ from normal functions? f) When will you make a function inline? Why? g) How to create object in C++? | |
| Q.2 | <ol style="list-style-type: none"> a) Explain the following terms of OOP. <ol style="list-style-type: none"> i) Polymorphism ii) Inheritance iii) Data hiding iv) Class & object b) Describe the concept of call by value and call by reference with an example. | 08

07 |
| Q.3 | <ol style="list-style-type: none"> a) What is the importance of static members in C++? Explain with example. b) Write a program to create class manager & implement concept of array of object. | 07

08 |
| Q.4 | <ol style="list-style-type: none"> a) Explain parameterized and copy constructor, with suitable example. b) Write a program in C++ to overload unary minus operator using friend function. | 07

08 |
| Q.5 | Write short notes on (any three) | 15 |
| | <ol style="list-style-type: none"> a) Recursive function b) Type casting c) Nesting of member function d) Destructor | |

Section B

- Q.6 Solve any five 10
- What is use of 'this'?
 - Define pure virtual function.
 - What are the generic classes in templates?
 - What is 'function overloading'?
 - Describe 'Try' and 'Catch' block.
 - List various file modes available in C++.
 - How to open and close the file?
- Q.7 07
- Define inheritance and write a program to illustrate multilevel inheritance.
- Q.8 08
- Write a program to implement Run Time Polymorphism in C++.
- Q.8 07
- Explain the stream classes in C++.
- Q.9 08
- Write a C++ program to read the file name and display the context of a file on screen.
- Q.9 07
- Write a program using the template concept to implement stack.
 - Explain how exception handling mechanism work in C++?
- Q.10 Write short notes on (any three) 15
- Template class
 - Virtual base class
 - Abstract class
 - Manipulators