

(OLD COURSE)**QP Code : 28533****(3 Hours)****[Total Marks : 100**

Note: 1) Question no. is 1 compulsory.
2) Answer any four from remaining.

Q1) Answer any four.

- Explain default constructor with example.
- What is function declaration?
- Explain destructor with example.
- WAP in c++ to find sum and average of digits in a given number.
- Explain the two features of OOP.

20

Q2a) WAP to generate output in following order. Use for loop.

10

1
121
12321
1234321

Q2b) Write a program in c++ to find roots of quadratic equation. Use switch statement.

10

Q3a) WAP in c++ to generate Fibonacci series using user defined function.

10

Q3b) Explain call by reference and call by value with example.

10

Q4a) Explain function overloading and write a program to perform sum of two integer, two float, two double. Using function overloading concept.

10

Q4b) Write a recursive program to find power of x^n .

10

Q5a) WAP in c++ to count number of characters, and space in a given string.

10

Q5b) Explain how to define functions inside and outside class with example.

10

Q6a) Explain multiple inheritance and write the program using concept of multiple inheritance.

10

Q6b) WAP to overload + operator to convert inches into feet and display total number of feet and inches.

10

Q7) write short note on (any four).

20

- Friend function
- static data member and member function
- pure virtual function
- copy constructor
- multipath inheritance.