

- (b) What are the enhancement in C++ over C ? Discuss with respect to following :
- (i) Data types
 - (ii) Variables
- 8

OR

- 2 (a) What do you mean by scope of a variable ? Explain call by value and call by reference with example.
- 8
- (b) What is inline function ? Write a program which finds area of triangle and square root of a number by using inline function.
- 8

- 3 (a) What is 'this' pointer ? What is its importance in C++ ?
- 8
- (b) Write a function in 'C++' to read 10 number from file 'date.in', arrange them in a file ascending order and output arranged in a file 'data out'.
- 8

OR

- 3 (a) Why we need virtual function ? Describe the various rules for writing a virtual function.
- 8

- (b) Describe Inheritance Hierarchy in detail.
- 8

- 4 (a) What are class templates ? Explain with example.
- 8
- (b) How class template be used with inheritance ? Explain by giving suitable example.
- 8

OR

- 4 (a) What is file processing in C++ ? Explain file and stream classes with suitable example.
- 8

- (b) Explain all types of iterators in C++.
- 8



5 (a) Write an algorithm to insert and delete an element in a double linked list.

(b) What is priority queue ? Implement it with double linked list. 8

OR

5 (a) How stack can be used for parenthesis matching ? Explain with suitable example. 8

(b) Explain following :

(i) Link list Vs. Array

(ii) Circular list Vs. Doubly linked list. 8

