

## Chapter 1

- 1 What is the difference between iosstream.h and iomanip.h with respect to manipulators ? 2
- 2 Differentiate between procedural programming paradigm and object oriented paradigm. 7
- 3 Write a short note on the following functions of IOS class : 7
  - width ( )
  - width (int n)
  - fill ( )
  - fill (int n)
  - precision ( )
  - precision (int n)
- 4 Write a short note on following manipulators : 7
  - endl
  - showpos
  - flush
  - ends
  - lock
  - setprecision (int n)
  - setbase (base n)

## Chapter 2

- 1 What do you mean by a class and an object ? 2
- 2 Write a program showing the use of static keyword for class data and member functions. 7
- 3 Write a program showing the use of const keyword in following three situations : 7
  - (i) On member functions of a class
  - (ii) On member function arguments
  - (iii) On objects
- 4 Write a program for swapping the data members of two classes using friend function. 7

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## Chapter 3

- 1 Define a destructor. 2
- 2 Write a program explaining the concept of following dynamic allocation operators in C++ : 7
  - (i) new
  - (ii) delete

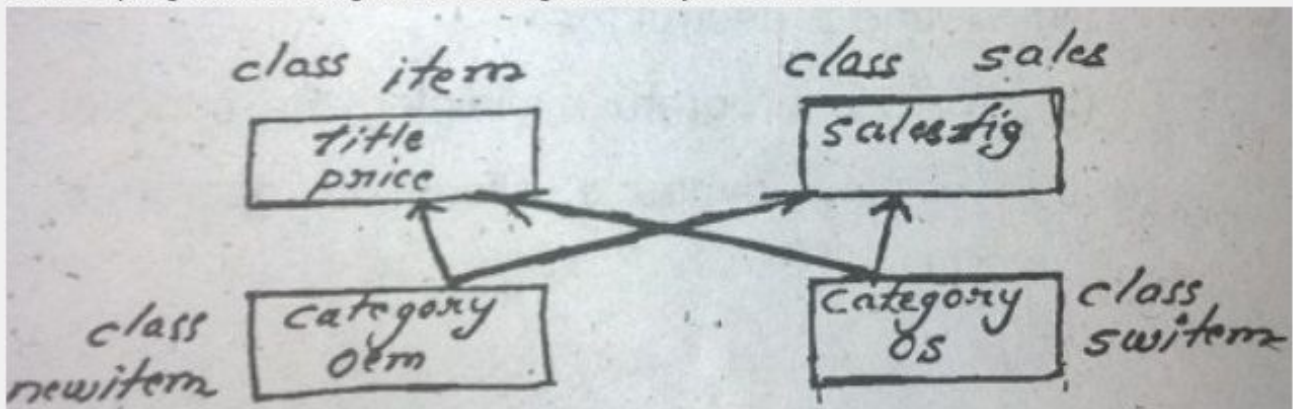
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- 3 Write a program explaining the concept of copy constructor. 7
- 4 Write a program for creating a class called data with overloaded constructors for specifying the data using three integers to represent the month, day and year or by using a string that contains the data in this general form mm/dd/yyyy. 7

## Chapter 4

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- 1 What do you mean by base class and a derived class ? 2
- 2 Write a program for overloading the binary operator + using friend function for adding two objects. 7
- 3 Write a program for comparison of two strings using overloaded == operator. 7
- 4 Write a program showing the following hierarchy of classes. 7



## Chapter 5

- 1 Write the syntax for declaration of pure virtual function. 2
  - 2 What is the syntactical difference between virtual function and pure virtual function ? Explain with an example. 7
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- 3 Write a program that inputs two numbers and divides the first by the second, and uses exception handling to manage a divide by zero error. 7
  - 4 Write a program for writing a swap ( ) function template that will swap two values of a given type of data. 7