Note : All the questions are compulsory.

Q.1.   Attempt any 2 Questions.   [10]

1) What are the Features of object oriented programming ?

2) What are the differences between procedural and object oriented approach.

3) What is mean by Encapsulation ? How it can be implemented in OOP ?

Q.2.   Attempt any 2 Questions.   [10]

1) Explain the difference between 'public' member & 'private' member of a class with proper example.

2) Explain the difference between constructor and destructor.

3) Write a C++ program using class in which user will enter name of the item and cost of item and function will calculate the bill for atleast three items.

Q.3.   Attempt any 2 Questions.   [10]

1) What is operator overloading ? Why it is necessary to overload an operator ?

2) Write a C++ program which shows the use of overloading operators using Friend Function.

3) What are the rules for overloading operator ?

Q.4.   Attempt any 2 Questions.   [10]

1) What is the difference between 'protected' and 'private' members.

2) Write a C++ program which will write some content into the file and then read that content from the file.

3) What are the applications of 'this pointer' ? What does 'this pointer' point to ?

Q.5.   Attemt any 2 Questions.   [10]

1) Explain copy constructor with proper programming example.

2) How we can implement 'assignment operator' in C++ ? Explain with proper example.

3) Write a C++ program which shows creating string object in a program.

Q.6.   Attempt any 2 Questions.   [10]

1) What are the Function Templates ? Explain.

2) Write a C++ program which shows the use of Function template in program.

3) Write a note on standard template library.

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