Object Oriented Programming Using C++ : 2017

Note : All questions are compulsory.

Section-`A' (Objective Type Questions)

1. Choose the correct answer:

(i) Which of the following concepts provides facility of using object of one class inside another class?

(a) Encapsulation   (b) Abstraction

(c) Composition   (d) Inheritance

(ii) Which of the following can not be friend?

(a) Function   (b) Class

(c) Object   (d) Operator function

(iii) _____ can not be used with the key word virtual.

(a) Class   (b) Member function

(c) Constructor   (d) Destructor

(iv) _____ operator is overloaded for object cout:

(a) >>   (b) <<   (c) +   (d) =

(v) What is the output of this C++ code:

```
#include <iostream.h>
#include <conio.h>>
void main ()
    m ();
    void ();
        printf(``hi");
```

(a) hi   (b) compile time error

(c) nothing   (d) Varies

Section-`B' (Short Answer Type Questions)

2. Why do we need object-oriented programming? Explain the features of object-oriented programming.

Or Explain the compatibility with example.

3. What is meant of inline function? Write its advantages and restriction imposed on it with the help of example.

Or What are manipulators? Give the use of any five manipulators with example.

4. Differentiate between constructor and destructor with suitable example.

Or What do you mean by operator function? Write the syntax of an operator function and describe.

5. Write a program to demonstrate how constructors are implemented when the classes are inherited.

Or What do you understand by diamond shaped ambiquity? How it can be removed.

6. Explain pointer to derived class and base. Give suitable example.

Or What is an exception? How is an exception handled in C++?

Section-`C' (Long Answer Type Questions)

7. What are the basic concept of object oriented programming? Discuss them in detail.

Or Write process of creating, compiling, linking and executing a C++ program.

8. Write a program to add two times (hrs, min and secs), illustrate the use of friend function.

Or What is function overloading? Why it is needed? Explain with example.

9. Explain constructor and its types with syntax.

Or Write a program to overload unary operator ``-" using both member and friend function.

10. What are the different forms of inheritance? Give an example.

Or What are the role of access specifiers in class declaration? Illustrate with example.

11. What is the purpose to create virtual function? Write declaration for a virtual function and rules for virtual function with example.

Or Discuss the console I/O operations in detail.