

Time : Three hours

Maximum : 75 marks

PART A — (5 × 6 = 30 marks)

Answer any FIVE questions.

1. Write a C ++ program to illustrate an inline function.
2. Explain function Overloading with an example.
3. Define a class.
4. Write a program to illustrate constructor overloading.
5. Explain the concept of constructor with default arguments.
6. What is a friend function? Explain with an example.
7. How are static data members declared and defined? Explain.
8. What is the significance of operator overloading?

PART B — (3 × 15 = 45 marks)

Answer any THREE questions.

9. Write a C++ program to add two complex objects by overloading the '+' operator.
10. What is Multiple Inheritance? Write a C++ program to illustrate Multiple Inheritance.

11. Write a program to illustrate class template with multiple parameters.

12. What is the output of this program?

```
#include  
using namespace std;  
int main()  
{  
float a;  
a = 5.9 + 3*1.00;  
cout<< a;  
return 0;  
}
```

13. (a) What is function overloading and operator overloading?

(b) What is the difference between declaration and definition?
