

B.Sc. DEGREE (C.B.C.S.S.) EXAMINATION, OCTOBER 2012**Third Semester**

Vocational Course : C++ PROGRAMMING

(For the Vocational Subject – Computer Applications of Model-II B.Sc. Physics)

Time : Three Hours

Maximum Weight : 25

Section A (Objective Type Questions)*Answer all questions.**Weight 1 for each bunch.***BUNCH I**

Fill in the blanks :

1. A class can derived from more than one base class is _____ type inheritance.
2. The operator _____ is used to send output data to the screen.
3. The Header file _____ should be included at the beginning of all programs that use input / output statements.
4. 'Long Int' contains _____ Bytes or _____ Bits.

BUNCH II

State whether True or False :

5. The Concept of using one operator for different purpose is known as operator overloading.
6. When a function return a value, the entire function call can be assigned to a variable.
7. A pointer to base class cannot be made to point to objects of derived class.
8. Inheritance helps in making a general class into a more specific class.

BUNCH III

Fill in the blanks :

9. The _____ loop is vary compact loop that combines all the three aspects of a control structure in single statement.
10. A _____ can be used to create objects of its own type.
11. The newline operator in C++ is _____.
12. A class can derived from more than one base class is _____ type inheritance.

Turn over

BUNCH IV

State whether True or False :

13. Using the operator overload concept, we can change the meaning of an operator.
14. Class members are public by default.
15. In C++, a function contained within a class is called 'member function'.
16. Operator function never return a value.

(4 × 1 = 4)

Section B (Short Answer Questions)

Answer any five questions.

Weight 1 each.

17. Why do we need the preprocessor directive #include <graphics>?
18. What are all the application of void data type in C++?
19. What is the application of 'Scope Resolution' Operator?
20. List the operator that we can't overload.
21. What is 'Public' Visibility mode in C++?
22. What is the function of 'new' and 'delete'?
23. Explain Multidimensional array.
24. What is string in programming language?

(5 × 1 = 5)

Section C (Short Essay/Problems)

Answer any four.

Weight 2 each.

25. Explain different types of graphics shapes available as C++ Object.
26. Write Rectangle drawing Algorithm.
27. Describe with example the uses of 'enumeration' data types.
28. What are all the overloading binary operator? Explain.
29. What is 'Static Function'?
30. Explain different types of visibility modes used in C++.

(4 × 2 = 8)

Section D (Essay Questions)

Answer any two questions.

Weight 4 each.

31. What is Operator Overloading? Write a program to add two complex numbers, with operator '+' overloading.
32. What is inheritance? Explain in detail different types of Inheritance.
33. Create a class with : Data members :

regno, mark 1, mark 2, mark 3, tot-mark

Member functions : Public-get-data () – to input details

Private - process-data () – to calculate total marks and grade

Public - print-data () - to print mark list.

Write a program to print the Mark list of a student.

(2 × 4 = 8)