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

Third Semester

Vocational Course—OBJECT ORIENTED PROGRAMMING IN C++

(For the Vocational subject Computer Science of Model II B.Sc. Mathematics)

Time : Three Hours   Maximum Weight : 25

Part A

Answer all questions.

(Objective type, weight 1 each **four** a bunch of four)

I.   1. What is the purpose of Inheritance ?

        (a) Information hiding.   (b) Reusability.

        (c) Releability.   (d) Abstraction.

      2. The term ADT is related to :

        (a) Data binding.   (b) Data abstraction.

        (c) Inheritance   (d) Encapsulation.

      3. Different type of task with single function name is called :

        (a) Function overloading.   (b) Polymorphism.

        (c) Operator overloading.   (d) Data binding.

      4. The insulation of the data from direct access by the program is called :

        (a) Data binding.   (b) Inheritance.

        (c) Information hiding.   (d) Data encapsulation.

II.   5. The operator "<<" is called :

        (a) Get from operator.   (b) Put to operator.

        (c) An extraction operator.   (d) None of these.

      6. The standard C++ comment is :

        (a) Single line.   (b) Multiline.

        (c) Single slash.   (d) None of these.

      7. A constructor that accept to parameters is called :

        (a) Copy constructor.   (b) Default constructor.

        (c) Implicit constructor.   (d) Parameterized constructor.

                                                              Turn over

8. Which option allows to add data to the end of the file ?

    (a) 10s : : atc.   (b) 10s : : app.

    (c) 10s : : in.   (d) 10s : : trunc.

III.   9. A class created from a class template is called :

    (a) Vector class.   (b) Template class.

    (c) Container class.   (d) Template function.

10. Which function gives the current position of the get pointer ?

    (a) tellp ( ).   (b) tellg ( ).

    (c) seekp ( ).   (d) seekg ( ).

11. Which of the following header file does not exist ?

    (a) <string.h>   (b) <str.h>

    (c) <iostream.h>   (d) <strstream.h>

12. An instance of a user defined type is called :

    (a) Class.   (b) Method.

    (c) Object.   (d) None of these.

IV. 13. The friend function of a class in C++ can access :

    (a) Only private numbers.

    (b) Only protected numbers.

    (c) Both private and protected numbers.

    (d) None of these.

14. Which header file contain Input/Output statements ?

    (a) <stdio.h>   (b) <iostream.h>

    (c) <stdlib.h>   (d) <fstream.h>

15. Which of the following is odd ?

    (a) asm.   (b) Auto.

    (c) asp.   (d) Catch.

16. The value of EOF is always :

    (a) 1.   (b) 2.

    (c) -1.   (d) 0.

$(4 \times 1 = 4)$

Part B

Answer any five *questions.*
(Short Answer, Weight 1 each)

17. What is Inheritance ?

18. What is polymorphism ?

19. What is type conversion ?

20. What is namespace ?

21. What is a private member function ?

22. What is virtual function ?

23. What is input stream and output stream ?

24. What is ofstream ?

$(5 \times 1 = 5)$

Part C

(Answer any **four**, *Short Essay / Problem solving question type, weight 2 each)*

25. What are the basic concepts of OOP ?

26. What is const ARGUMENTS ?

27. What is template ?

28. Explain the terms put ( ), get ( ), write ( ) and read ( ).

29. What is pass by value and pass by reference ?

30. What are the rules for virtual function ?

$(4 \times 2 = 8)$

Part D

(Answer any **two**, *Essay type questions, weight 4 each)*

31. Explain Exception handling mechanism.

32. Explain Operator overloading.

33. Explain friend function with suitable example.

$(2 \times 4 = 8)$