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**(Pages : 3)**

**Reg. No.....**

**Name.....**

**B.Sc. DEGREE (C.B.C.S.S.) EXAMINATION, OCTOBER 2011**

**Third Semester**

**Vocational Course—OBJECT ORIENTED PROGRAMMING IN C++**

**(For B.Sc. Mathematics—Vocational Model II)**

**Time : Three Hours**

**Maximum Weight : 25**

**Part A (Objective type)**

*Answer all the questions in this part.*

*Weight 1 each for a bunch of four.*

**I. 1 Which of the following do not support OOP concept ?**

- |           |          |
|-----------|----------|
| (a) Java. | (b) C++. |
| (c) C.    | (d) C #. |

**2 When data and functions are combined into one entity, then it is called as :**

- |                   |                    |
|-------------------|--------------------|
| (a) Polymorphism. | (b) Encapsulation. |
| (c) Inheritance.  | (d) Data hiding.   |

**3 Hiding the details means :**

- |                    |                  |
|--------------------|------------------|
| (a) Encapsulation. | (b) Polymorphis. |
| (c) Abstraction.   | (d) Inheritance. |

**4 Which of the following facilities code reusability ?**

- |                          |                           |
|--------------------------|---------------------------|
| (a) Inheritance.         | (b) Dynamic polymorphism. |
| (c) Static polymorphism. | (d) Data abstraction.     |

**II. 5 In which year C with Classes was renamed as C++ ?**

- |           |           |
|-----------|-----------|
| (a) 1979. | (b) 1981. |
| (c) 1983. | (d) 1985. |

**6 The order in which operands are evaluated in an expression is predictable if the operator is :**

- |        |         |
|--------|---------|
| (a) *. | (b) +.  |
| (c) %. | (d) &&. |

**7 Suppose a is declared as integer and assigned the value 52, what will be the result if a>>3 is performed ?**

- |         |         |
|---------|---------|
| (a) 01. | (b) 03. |
| (c) 09. | (d) 90. |

**Turn over**

8 For a method to be an interface between the outside world and a class, it has to be declared :

- (a) Private.
- (b) Protected.
- (c) Public.
- (d) External.

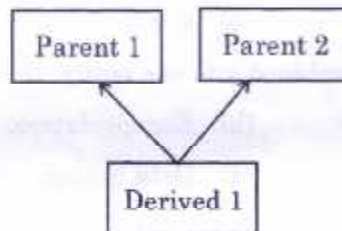
III. 9 Which one of the following operator cannot be overloaded ?

- (a) dot operator (.).
- (b) Pulse operator (+).
- (c) ampersand operator (&).
- (d) decrement operator (--).

10 The ambiguity of members normally occurs in :

- (a) Single inheritance.
- (b) Multilevel inheritance.
- (c) Multipath inheritance.
- (d) None of the above.

11 The diagram given below represents which type of inheritance ?



- (a) Single Inheritance.
- (b) Multi-level inheritance.
- (c) Multiple Inheritance.
- (d) Hybrid inheritance.

12 What is the size of void pointer ?

- (a) Zero byte.
- (b) One byte.
- (c) Two byte.
- (d) Four byte.

IV. 13 Which of the following is **not** a member function of ostream class ?

- (a) put ( ).
- (b) read ( ).
- (c) write ( ).
- (d) <<.

14 Which of the following function can operate on binary values only ?

- (a) get ( ).
- (b) put ( ).
- (c) <<.
- (d) write ( ).

15 What error is indicated by stream status bit 0 × 00 ?

- (a) end of file.
- (b) Hard error.
- (c) No error.
- (d) Invalid operation.

16 Template class is also called as :

- (a) Generic class.
- (b) Virtual class.
- (c) Container class.
- (d) Base class.

(4 × 1 = 4)

**Part B (Short Answer)**

*Answer any five.*

*Weight 1 each.*

- 17 Give any two drawbacks of structured programming.
- 18 What do you mean by message passing ?
- 19 What is a method ?
- 20 Where do you think returning a value by reference be useful ?
- 21 What is a constructor ?
- 22 What is a pointer ?
- 23 What is the use of seekg( ) function ?
- 24 What is a container ?

(5 × 1 = 5)

**Part C (Short Essay/Problem Solving Type)**

*Weight 2 each.*

- 25 What are the benefits of object oriented programming ?
- 26 What is ternary operator ? Explain with an example.
- 27 Write short notes on the three prominent storage classes.
- 28 How constructors and destructors executed in multilevel inheritance ?
- 29 Write a C++ program to show how to copy a string into another string array using pointer.
- 30 Explain command line argument with an example.

(4 × 2 = 8)

**Part D (Essay Type Questions)**

*Answer any two.*

*Weight 4 each.*

- 31 Explain the concept of operator overloading using friend functions.
- 32 Explain in detail about different types of inheritance.
- 33 Explain the mechanism of exception handling.

(2 × 4 = 8)