

(6 pages)

Reg. No. :

Code No. : 11109

Sub. Code : GMCA 21

B.C.A. (CBCS) DEGREE EXAMINATION, APRIL 2013.

Second Semester

Computer Application — Main

OBJECT ORIENTED PROGRAMMING C++

(For those who joined in July 2012 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Wrapping up of data and function into a single unit is called _____.
(a) Abstraction (b) Encapsulation
(c) Inheritance (d) Polymorphism
2. Which operator is used to access class members
(a) :: (b) .
(c) * (d) →

3. _____ are the basic run time entities in OOP.

(a) Class (b) Object
(c) Array (d) Pointer

4. The default return type of function is

(a) Float (b) Char
(c) Int (d) String

5. A constructor that has no parameter is called _____ constructor.

(a) Copy (b) Non parameterized
(c) Default (d) Dynamic

6. A destructor start with the symbol _____.

(a) @ (b) #
(c) ! (d) ~

7. Deriving a new class from only one class is called _____ inheritance.

(a) Multilevel (b) Multiple
(c) Hierarchical (d) Single

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8. A ————— key word avoid multiple path of inheritance.

- (a) Static (b) Virtual
(c) New (d) Delete

9. ————— is the collection of related information.

- (a) Data (b) Record
(c) File (d) None of these

10. A ————— is the path of data flow.

- (a) Stream (b) File
(c) Information (d) Database

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) Discuss the structure of C++ program.

Or

(b) List out the applications and benefits of OOP.

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12. (a) Explain inline functions.

Or

(b) Explain the concept of function overloading with suitable example.

13. (a) What is constructor? Discuss its properties.

Or

(b) Write short notes on type conversions.

14. (a) What is inheritance? Discuss its types.

Or

(b) Write short notes on pointers.

15. (a) Write a note on command line arguments.

Or

(b) Write a note on streams.

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PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).

16. (a) Explain the basic concepts of object oriented programming.

Or

- (b) Discuss various data types in C++.

17. (a) Write a C++ program to find the factorial of a given number using recursive function.

Or

- (b) Explain the concept of default arguments.

18. (a) Write a C++ program to overload unary operator '−'.

Or

- (b) Explain the concept of copy constructor.

19. (a) Write a C++ program to implement multiple inheritance.

Or

- (b) Write down the rules for virtual functions.

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20. (a) Explain various C++ stream classes.

Or

- (b) Write a C++ program to imitate DOS type command using command line arguments.

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