

M 5235

Reg. No. : .....

Name : .....

III Semester B.A./B.Sc./B.Com./B.B.A./B.B.A.T.T.M./B.B.M./B.C.A./B.S.W./  
B.A. Afsal-UI-Ulama Degree (CCSS – Regular/Supple./Improvement)  
Examination, November 2013  
CORE COURSE IN COMPUTER SCIENCE  
3B03 CSC : Programming in C++

Time: 3 Hours

Max. Weightage : 21

- Instructions :**
- 1) Section A : Answer **all** questions.
  - 2) Section B : Answer **any five** questions.
  - 3) Section C : Answer **any five** questions.
  - 4) Section D : Answer **any one** question.

SECTION – A

Answer **all** questions. Weightage for a bunch of **four** questions is **1**.

1. The package of data and functions in a single unit is known as \_\_\_\_\_
  - a) abstraction
  - b) encapsulation
  - c) data hiding
  - d) polymorphism
2. Runtime polymorphism is achieved by \_\_\_\_\_
  - a) friend function
  - b) virtual function
  - c) operator overloading
  - d) function overloading
3. In C++, dynamic memory allocation is accomplished with the operator \_\_\_\_\_
  - a) new
  - b) this
  - c) malloc()
  - d) delete
4. The main() function returns an integer value to \_\_\_\_\_
  - a) main() function
  - b) compiler
  - c) operating system
  - d) none of the above

P.T.O.



5. Mechanism of deriving two or more classes from a class is known as \_\_\_\_\_
- a) multilevel inheritance                      b) single inheritance  
c) multiple inheritance                      d) hierarchical inheritance
6. A function call mechanism that passes arguments to a function by passing a copy of the values of the arguments is \_\_\_\_\_
- a) call by name                      b) call by value  
c) call by reference                      d) call by address
7. Which of the following about a friend is false function ?
- a) It is not called using the object of the class.  
b) It does not belong to the class.  
c) It can be declared only in the public part of a class.  
d) None of these
8. A class which contain pure virtual function is called \_\_\_\_\_
- a) base class                      b) derived class  
c) friend class                      d) abstract class

(2x)

## SECTION – B

Answer **any five** questions. Weightage **one each**.

9. What is the use of friend function ?
10. Give the syntax of if-else statement.
11. What is an object ?
12. Explain the use of Scope resolution operator.
13. Define default constructor.
14. What is meant by nested class ?
15. Explain the use of this pointer.
16. Define pure virtual function.

(5x)



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SECTION – C

Answer **any 5** questions. Weightage **two each**.

17. Explain the term data abstraction with a suitable example.
18. What are the benefits of Object Oriented Programming ? Explain.
19. Differentiate between inline function and normal function.
20. Explain the multilevel inheritance with suitable example.
21. What is a file mode ? Describe the various file mode options available in C++.
22. List out the rules for overloading operators.
23. Write a program to find the area of a square, rectangle and circle using function overloading.
24. What are the two methods of opening a file ? Explain with examples. (5×2=10)

SECTION – D

Answer **any one** question. Weightage **4**.

25. Write a short note on :
  - a) looping statements in C++
  - b) static members of a class.
26. Write a class to represent complex numbers and perform addition and subtraction of complex numbers using friend functions. (1×4=4)

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SECTION – B

Answer any five questions. Weightage 1 each

What is an instance ?

Define the term data abstraction.