

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)



Reg. No. _____

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)

SECTION – B

Answer any five questions. Weightage 1 each

What is an instance ?

Define the term data abstraction.