M 2300

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 Ul Ulama Degree (CCSS-Reg./Supple./Improve.)
Examination, November 2012
CORE COURSE IN COMPUTER SCIENCE
3B03 CSC : Programming in C++

Time : 3 Hours

Max. Weightage : 21

SECTION – A

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

I. 1) The cin and cout functions require the header file to include

    a) stdio.h   b) string.h

    c) iostream.h   d) conio.h

2) A relational operator

    a) assign one operand to another

    b) assign multiple operand to a variable

    c) compare two operands

    d) logically combines two operands

3) Normally an character variable occupy ————— no. of bytes in memory.

    a) 1 bytes   b) 2 bytes

    c) 3 bytes   d) 4 bytes

4) The member of class are by default

    a) private

    b) public

    c) protected

    d) none of the above

II. 5) The library function exit () causes an exit from

    a) the loop in which it occurs

    b) the block in which it occurs

    c) the function in which it occurs

    d) the program in which occurs

6) When a base class is not used for object declaration it is called

    a) abstract class   b) derived class

    c) concrete class   d) container class

7) In a class declaration data or function designated private are accessible

    a) to any function in the program

    b) only if you know the password

    c) to member functions of that class

    d) only to public members of the class

8) The new operator

    a) allocates memory   b) release memory

    c) both a) and b)   d) none of these   **(2×1=2)**

SECTION – B

Answer **any 5** questions. Weightage **1 each**.

9. What is a constructor ?

10. Explain derived data types.

11. Compare OOP language with procedure oriented languages.

12. Explain accessing private variable with pointers.

13. What is Polymorphism ?

14. Explain operator overloading.

15. Explain the use of # include.

16. Explain **this** pointer.   **(5×1=5)**

SECTION – C

Answer **any 5** questions. Weightage **2 each**.

17. What is the difference between the structure and an array ? Explain.

18. Define a class string. Use overloaded = = operator to compare two string.

19. Discuss various file operations with examples.

20. Explain the following.
    i) object slicing
    ii) early binding and late binding

21. Describe how function templetes can be represented with multiple parameters.

22. Explain in detail the concept of pure virtual functions.

23. Describe the importance of friend function.

24. With necessary syntax, explain how multi dimensional arrays can be represented.

$$(5 \times 2 = 10)$$

SECTION – D

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

25. a) Write an object oriented program to find the roots of a quadratic equations.
    b) Explain scope access operator.

26. Write suitable examples explain different types of inheritance.

$$(1 \times 4 = 4)$$