Il Sem. B.C.A. Degree Examination, May/June 2014
(Y2K8 Scheme) (2008-09 and Onwards)
COMPUTER SCIENCE
Object Oriented Programming Using C++
(F+R - 70 – 2011-12 and Onwards/R - 60 – Prior to 2011-12)

Time: 3 Hours
Max. Marks: 60/70

Instructions: 1) Answer all Sections.
               2) Section ‘D’ applicable to 2011-12 and onwards.

SECTION A

Answer any ten questions: (1x10 = 10)

1. Differentiate between class and objects.

2. The operators << and >> in C++ are called as

3. What is function prototyping?

4. What is an inline function?

5. What is the use of scope resolution operator?

6. List out the different types of constructors.

7. Mention any two advantages of operator overloading.

8. What is default visibility mode in inheritance?

9. What is an abstract class?

10. What is “this” pointer?

11. What is a template?

12. What is a buffer?

SECTION B

Answer any five questions: (5x3 = 15)

13. Explain the characteristics of OOP’s.

14. Explain function with default arguments.

15. Explain data members and member functions.

P.T.O.
16. Explain array of objects with an example.
17. Write any three rules for operator overloading.
18. Explain protected visibility specifier.
19. What is virtual function?
20. Explain exception handling in C++.

SECTION – C

Answer any five questions: (5×7=35)

21. a) Explain object and class with an example.
   b) What is friend function? Explain with an example.
   3

22. a) Explain memory allocation of objects.
   b) Explain inline function with an example.
   4

23. What is constructors? Explain different types of constructors.
   7

24. What is a operator overloading? Explain with an example.
   7

25. What are different types of inheritance? Give an example for each.
   7

26. a) Explain overriding with an example.
   b) What is pure virtual function?
   5

27. a) Explain different ways to open files.
   b) Explain file pointers sectf() and tellg() function.
   4
   3

28. Write a C++ program to find the next date by overloading ++ operator.
   7

SECTION – D

Answer any one question: (1×10=10)

29. Write a C++ program to perform multiplication of two matrices using binary operator overloading.

30. Write a C++ program to create student report using inheritance technique.