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II 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

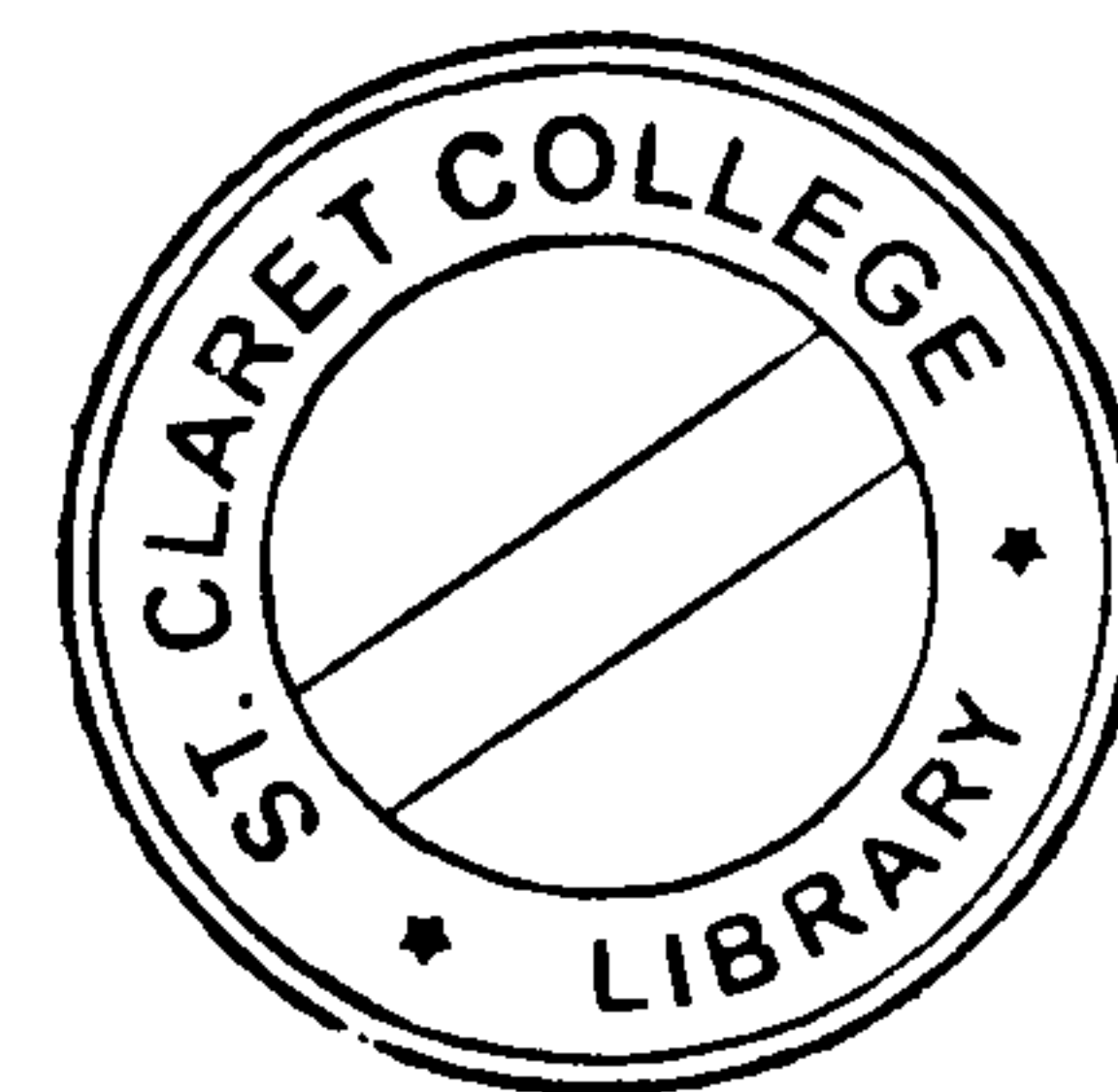
Instructions : 1) Answer *all* Sections.
2) Section '**D**' applicable to **2011-12** and onwards.

SECTION – A

Answer **any ten** questions :

(1×10=10)

1. Differentiate between class and objects.
2. The operators << and >> in C++ are called as
3. What is function prototyping ?
4. What is 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 template ?
12. What is a buffer ?



SECTION – B

Answer **any five** questions :

(5×3=15)

13. Explain the characteristics of OOP's.
14. Explain function with default arguments.
15. Explain data members and member functions.

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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. 3
- b) What is friend function ? Explain with an example. 4
22. a) Explain memory allocation of objects. 4
- b) Explain inline function with an example. 3
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. 5
- b) What is pure virtual function ? 2
27. a) Explain different ways to open files. 4
- b) Explain file pointers secfs() and tellg() function. 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.
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