



SN – 275

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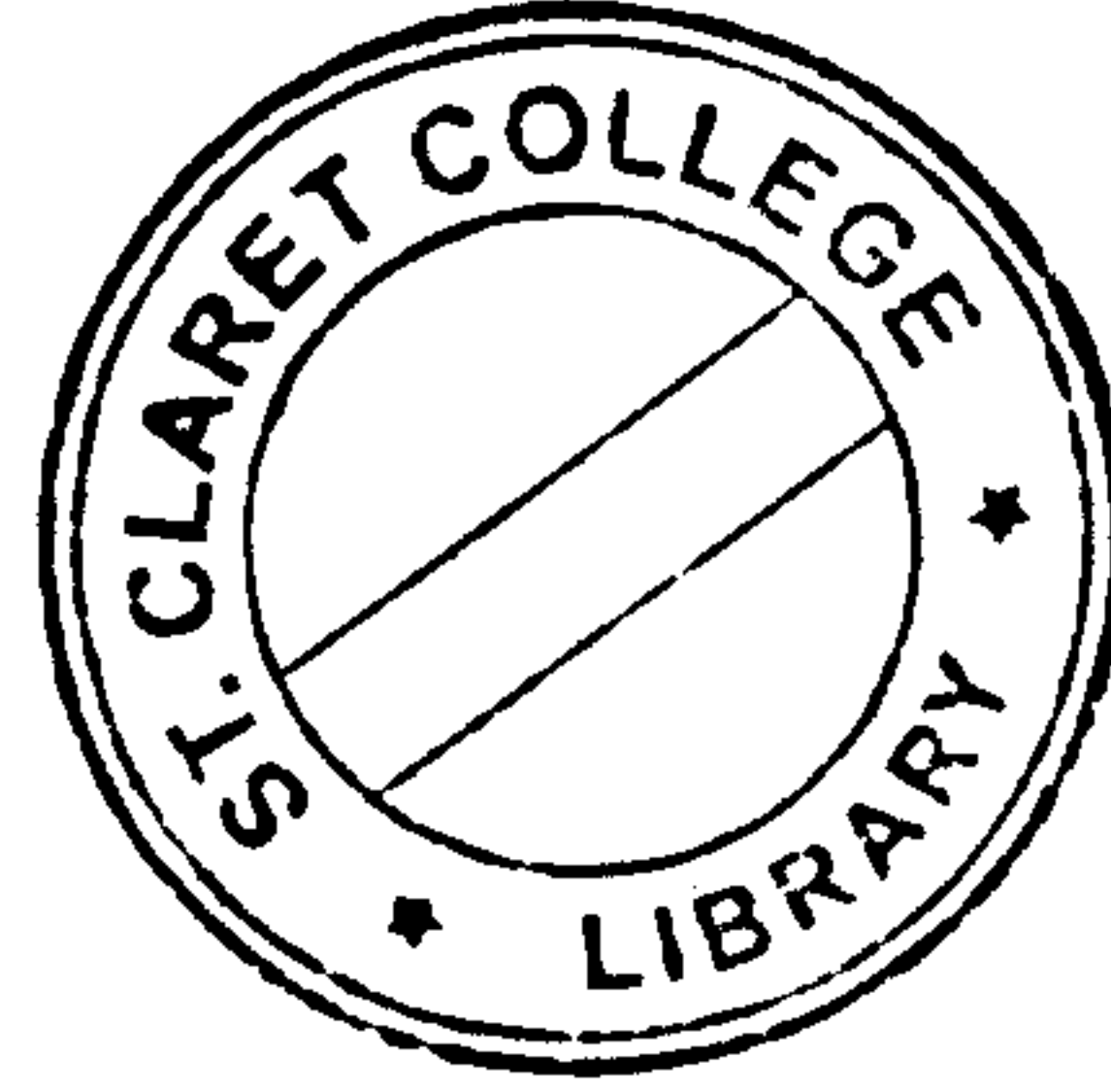
III Semester B.A./B.Sc. Examination, November/December 2013
(Semester Scheme) (F+R)
COMPUTER SCIENCE – III
OOPS Using C++ and DBMS

Time : 3 Hours

Max. Marks : 70(F)/60(R)

- Instructions :** 1) Repeaters have to answer Section **A, B** and **C** only, which carries **60** marks (Prior to 2012-13).
2) Freshers have to answer Section **A, B, C** and **D** which carries **70** marks (2012-13 and onwards).
3) **70** marks for students of 2012-13.
4) **60** marks for the Repeater students prior to 2012-13.

SECTION – A



I. Answer any **10** questions.

(1×10=10)

- 1) What is an object ?
- 2) Write the difference between break and continue statements.
- 3) How is the end of a string recognized in C++ ?
- 4) What is the use of scope resolution operator ?
- 5) What is a copy constructor ?
- 6) What is meant by operator overloading ?
- 7) Write the components that cannot be inherited.
- 8) What is a query ?
- 9) What is an entity ?
- 10) What is a constraint ?
- 11) Define Boyce Codd normal form.
- 12) Write the use of commit and rollback commands.

P.T.O.



SECTION – B

II. Answer any 5 questions :

(3×5=15)

- 13) Explain polymorphism.
- 14) Explain parametrized constructor.
- 15) Explain the concept of overriding member functions.
- 16) What do you mean by command line Arguments ?
- 17) Explain the functions of DBA.
- 18) Explain simple and composite Attributes.
- 19) Write the syntax of CREATE command in SQL.

SECTION – C

III. Answer any 5 questions :

(7×5=35)

- 20) a) Explain the scope of variables. 4
- b) Write a program to test whether a number is prime or not. 3
- 21) a) Explain friend function with an example. 4
- b) Explain inline function. 3
- 22) a) Explain binary operator overloading with an example. 4
- b) Explain the difference between private public and protected. 3
- 23) What is function overloading ? Write a program to illustrate it. 7
- 24) Write a note on :
 - a) E-R Diagram. 3
 - b) DDL. 2
 - c) Super Keys. 2



- 25) Define Normalization. Explain 1NF and 2NF. 7
- 26) a) Explain the Relational Data Model. 4
- b) Explain any three advantages of DBMS. 3
- 27) a) Explain the three schema Architecture. 4
- b) Write a note on Distributed database. 3

SECTION – D
(2012-13 and onwards students only)

IV. Answer **any one** question :

(10×1=10)

- 28) What is Multiple Inheritance ? Write a program to illustrate it.
- 29) Explain Relational Algebra in detail.
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