



M 27619

Reg. No. :

Name :

II Semester M.C.A. Degree (Reg./Sup./Imp.) Examination, July 2015
(2013 and Earlier Admn.)

MCA C 2.1 : OBJECT ORIENTED PROGRAMMING AND C++

Time: 3 Hours

Max. Marks : 80

Instructions : 1) Answer **any five full** questions.

2) **All** questions carry **equal** marks.

1. a) Explain the control structures in C++ with their general form and write a program in C++ to generate Fibonacci series using while statement. 8
- b) Explain the two unary operators "new" and "delete" with suitable example. 8
2. a) Write a C++ program to find BCD of two numbers recursively and explain its structure in detail. 8
- b) Discuss call by reference and return by reference with suitable examples. 8
3. a) Define class and objects. Write the general forms of declaration and illustrate with suitable C++ program. 8
- b) Compare and contrast inline and friend function with suitable example. 8
4. a) Define constructor, explain its characteristics and give its general form. 8
- b) Write C++ program for passing of arguments to constructor functions. 8
5. a) Explain the nesting of classes with suitable examples. 8
- b) Describe the hierarchical and hybrid inheritance with suitable examples. 8
6. a) Explain multiple inheritance and give its general form. 8
- b) Discuss the destructors with a suitable C++ program. 8

P.T.O.



7. a) Describe the exception handling functions with suitable examples. 8
b) Explain overriding and overloading functions with examples. 8
8. Write short notes on (any four) : (4x4=16)
- a) Virtual function
 - b) Class templates
 - c) File I/O classes
 - d) STL (Standard Template Library)
 - e) Dynamic memory allocation.

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