

Roll No. ....

Exam Code : J-19

Subject Code—0414

**M.C.A. (Third Year) EXAMINATION**

(5 Years Integrated Course)

(Batch 2009 Onwards)

OBJECT ORIENTED PROGRAMMING

USING C++

MCA-302

*Time : 3 Hours*

*Maximum Marks : 70*

**Section A**

**Note :** Attempt any *Seven* questions. **7×5=35**

1. Write differences between OOPS and Procedural Programming.
2. Explain abstraction in short.
3. Discuss Polymorphism.

(3-94-12-0119) J-0414

**P.T.O.**

4. What are objects and classes ?
5. Discuss type casting with examples.
6. What do you mean by function overloading ?
7. What is the use of pointer in programming ?  
Explain.
8. Explain Virtual Function.
9. Describe predefined and user-defined functions.
10. Name the file streams available in C++.

### **Section B**

**Note :** Attempt all the questions.

11. What do you mean by operator overloading ?  
Write a program to overload >> operator.

*Or*

What do you mean by destructor ? Explain  
with suitable program. **12**

12. What is Inheritance ? Write a program to  
implement the concept of multiple-inheritance.

*Or*

Explain pure virtual function with suitable  
program of your choice. **12**

13. Why exception handling is important in  
programming ? Write a program to defined  
the concept of exception handling.

*Or*

What is the purpose of file handling in C++ ?  
Write a program to write 'You are welcome in  
GJU' string in a text file. **11**