

END TERM EXAMINATION

THIRD SEMESTER [BCA] DECEMBER 2013

Paper Code: BCA-209

Subject: Object Oriented Programming
Using C++ (Batch 2011 onwards)

Time : 3 Hours

Maximum Marks: 75

Note: Attempt all questions, including Q.no.1 which is compulsory.
Internal choice is indicated.

- Q1. (2.5x10=25)
- (a) Difference between C and C++
 - (b) Explain the features of OOPs
 - (c) Explain Data Hiding Concept in OOPs
 - (d) Give an example of new and delete operators
 - (e) Explain Aggregation
 - (f) Difference between Early binding and Late binding
 - (g) Difference between classification and composition
 - (h) What is Abstract Class explain
 - (i) Give an example of Template Class
 - (j) Give an Example of Destructor
- Q 2. (4)
- (a) Explain Function Overloading with example? (4)
 - (b) Explain Constructor with example? (4)
 - (c) Explain Virtual Function with example ? (4.5)
- OR
- (a) Explain Template Function with example? (4)
 - (b) Explain Benefits of OOPs? (4)
 - (c) Explain C++ Garbage collection with example? (4.5)
- Q 3. (4)
- (a) Explain Multiple Inheritance with example? (4)
 - (b) Explain Namespaces with example? (4)
 - (c) Give an example of try and catch block (4.5)
- OR
- (a) Write a short note on Default arguments and how these are use in function call? (4)
 - (b) Difference between Multiple and Multilevel Inheritance with example? (4)
 - (c) Example an example of Unary Operator Overloading? (4.5)
- Q4. (4)
- (a) Explain Command line arguments with example? (4)
 - (b) Explain Friend Function with example? (4)
 - (c) Explain free() and malloc() with example ? (4.5)
- OR
- (a) Explain Parametric Polymorphism with example? (4)
 - (b) Difference Between Overloading and Overriding functions? (4)
 - (c) Explain different types of Exceptions in C++ ? (4.5)
- Q5. (4)
- (a) Discuss ambiguity in multiple Inheritance explain with example ? (4)
 - (b) what is pure virtual function explain with example? (4)
 - (c) what are the file modes / open mode bits? Explain with example? (4.5)
- OR
- (a) What is generic class explain with example ? (4)
 - (b) Write a short note on stream and its types? (4)
 - (c) How Errors can be handled during file operations explain with example? (4.5)