

**UG-425**

**BCA-14**

**U.G. DEGREE EXAMINATION –  
JANUARY 2009.**

**(AY 2004-05 batch onwards)**

**Third Year**

**B.C.A.**

**C++ AND OBJECT ORIENTED PROGRAMMING**

**Time : 3 hours**

**Maximum marks : 60/75**

**Answer for 5 marks question should not exceed  
2 pages.**

**Answer for 10 marks questions should not exceed  
5 pages.**

**PART A**

**Candidates with enrollment number starting with  
A4 BCA and C5 BCA should answer any FOUR from  
the Questions 1 to 6 and all others should answer any  
FIVE from the Questions 1 to 7 in Part A.**

**(4 × 5 = 20)**

**(5 × 5 = 25)**

- 1. What is Abstraction? Give example.**
- 2. Write a C++ program to find the sum of digits of a given number.**

3. Explain the purpose of new and delete operator.
4. What is a structure? How does a structure differ from an array?
5. What is inheritance? Give an example
6. With an example explain how an object is passed to a function.
7. Discuss about command-line arguments with an example.

### PART B

Candidates with enrollment number starting with A4 BCA and C5 BCA should answer any FOUR from the Questions 8 to 13 and all others should answer any FIVE from the Questions 8 to 14 in Part B.

(4 × 10 = 40)

(5 × 10 = 50)

8. What is a manipulator? Explain the use of I/O manipulators with example.
9. List out the various control structures available in C++. Give an example
10. Explain the different types of Arrays in detail.
11. What is a constructor? Explain the different types of constructors.

12. Describe the various file stream classes.
13. How is polymorphism achieved at (a) Compile time and (b) Run time – Discuss
14. Explain Unified Modeling Language in detail.

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