

**UG-413**

**BCA-02**

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

**First Year**

**B.C.A.**

**‘C’ PROGRAMMING AND DATA STRUCTURES**

**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 — (4 × 5 = 20/5 × 5 = 25 marks)**

Candidates with enrolment number starting with  
A4BCA and C5BCA 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.

1. What is meant by procedure oriented programming? Discuss.
2. Write a program to determine whether the given number is ODD or EVEN.

3. Explain the Union data types.
4. List out the differences between while and do while statement.
5. Define the term data structure. Give example.
6. Explain ordered lists.
7. Explain Garbage collection.

PART B — ( $4 \times 10 = 40/5 \times 10 = 50$  marks)

Candidates with enrolment number starting with A4BCA and C5BCA 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.

8. Explain C-Tokens in detail.
9. Discuss the decision making statements in C with examples.
10. What is meant by an Array? Explain with relevant examples.
11. List out the difference between structure and Union with an example.
12. With an example explain the operations that can be performed on a stack.

13. Write an algorithm to delete the last node in a singly linked list.
14. Explain about file organizations.

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