

**DE-7043****14**

## DISTANCE EDUCATION

B.C.A. DEGREE EXAMINATION, DECEMBER 2009.

## C PROGRAMMING

(2003 onwards)

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

(5 × 20 = 100)

1. (a) Describe various array techniques used to develop programs.  
(b) Write detailed notes on procedure and recursion.
2. (a) Explain C datatypes with suitable examples.  
(b) Write short notes on expression and how the type conversion is used in expression.
3. (a) Write short notes on
  - (i) Symbolic constant
  - (ii) Associativity and precedence.  
(b) Describe any two conditional statements with suitable example.
4. (a) Write short notes on
  - (i) GOTO Break and Continue statement.
  - (ii) Differentiate between control and exit control statements, with example.  
(b) Write a C program for matrix manipulation by using two dimensional array.
5. (a) What is the use of functions in C? Explain subprogram with suitable example.  
(b) Write a C program for factorial by using the concept of recursion.
6. (a) Write short notes on
  - (i) Return values and its types.
  - (ii) Struct keyword in C.

- (b) Explain the storage classes available in C.
  - 7. (a) Write a C program to store and display book details using files.
    - (b) Describe the various file opening and closing methods with example.
  - 8. (a) Explain the Random access file processing.
    - (b) Write short notes on
      - (i) I/O formatting.
      - (ii) Conditional statement.
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