

DE- 4033

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## DISTANCE EDUCATION

B.C.A. DEGREE EXAMINATION, DECEMBER 2008.

## C – PROGRAMMING

(2003 onwards)

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

All questions carry equal marks.

(5 × 20 = 100)

1. (a) Explain different approaches to program development. (10)
- (b) Explain the basics of sorting. (10)
2. (a) Explain different types of operators in C with an example.
- (b) Write C program to find the area of circle.
3. (a) Explain the following terms in C:
  - (i) Anatomy of C program (6)
  - (ii) Keywords and identifiers (4)
  - (iii) Type conversion in expressions. (3)
- (b) Write a C program to convert the temperature in Fahrenheit to Celsius. (7)

4. (a) Explain looping and nested looping statements in C with an example.  
(b) Write a C program to find the sum of 'N' natural numbers.
  5. (a) Define the term array. Explain one dimensional array and multidimensional array with an example.  
(b) Write a program to sort the given numbers in ascending order.
  6. (a) Explain user defined functions in detail.  
(b) Write a C program to count the number of characters, words and lines in a given text.
  7. (a) Explain different storage classes with suitable examples.  
(b) Define pointers and array of pointers with an example.
  8. (a) Explain various file operations in detail. (15)  
(b) Discuss the concept of macros with an example. (5)
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