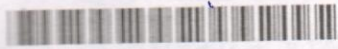


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**BCACAC 109**

**Credit Based First Semester B.C.A. Degree Examination, Oct./Nov. 2016  
(Common to All Batches)  
PROGRAMMING IN C**

Time : 3 Hours

Max. Marks : 80

**Note:** Answer **any ten** questions from Part – A and answer **one full** question from **each** Unit of Part – B.

**PART – A**

**(10×2=20)**

1. a) What are comments ? How to write comments in C ?
- b) What are string constants ? How they differ from single character constants ?
- c) List the rules used for naming an identifier.
- d) What would be the value of x after the execution of the following statements ?  
`int x, y = 10; char z = 'a'; x = y + z;`
- e) Differentiate break and continue.
- f) What is an array ? Write a C statement to declare an integer array of size 100.
- g) Mention suitable string functions to do the following :
  - a) To find length of the string.
  - b) To copy one string to another string.
- h) Write the scope and life time of static variables.
  - i) What is recursion ?
  - j) Differentiate structures and unions.
- k) What is a pointer ? How to declare a pointer variable in C ?
- l) List any two file access modes with their purpose.

P.T.O.



## PART – B

## Unit – I

2. a) Explain the features of C program.
  - b) List and explain different assignment and relational operators available in C.
  - c) Explain precedence and associativity of arithmetic operators in C. (5+5+5)
3. a) Explain the fundamental data types of C.
  - b) Explain the following with syntax and example :
    - i) Conditional operators.
    - ii) Increment and decrement operators.
  - c) Explain printing strings and real numbers using formatted output statement. (6+4+5)

## Unit – II

4. a) Explain switch statement with syntax and example.
  - b) Explain the methods of declaring and initializing one dimensional array.
  - c) Explain do while statement with syntax and example. (5+5+5)
5. a) Explain else if ladder with syntax and suitable example.
  - b) Explain for loop with syntax and example.
  - c) Explain :
    - i) break statement with example.
    - ii) goto statement with example. (5+5+5)

## Unit – III

6. a) List and explain any five string handling functions with examples each.
- b) Explain function definition with syntax and example.
- c) Explain call by value and call by reference with suitable example. (6+4+5)



- 7. a) What is a string ? How to declare and initialize strings and input strings ?
- b) Explain any two categories of user-defined functions in C.
- c) Explain passing arrays to a function with suitable example. (4+6+5)

**Unit – IV**

- 8. a) What is structure ? Explain structure definition with syntax and example.
  - b) Explain following file related functions :
    - i) fseek()
    - ii) ftell
    - iii) rewind
    - iv) feof()
  - c) Explain the following with examples :
    - i) size of operator
    - ii) file inclusion directive. (5+6+4)
  - 9. a) Explain with examples different forms of macro substitutions.
  - b) Explain nested structures with suitable example.
  - c) Write a note on pointers in 'C'. (7+4+4)
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