

Roll No.

Total Pages : 2

858

BCA (14-15)//D-15
PROGRAMMING IN C
PAPER: BCA-116

Time: Three Hours

[Maximum Marks: 80]

Note: Attempt five questions in all, selecting one question from each unit. All questions carry equal marks.

1. (Compulsory question):

- (i) Differentiate between keywords and identifiers
- (ii) Differentiate between getch () and getchar () function.
- (iii) Write a single conditional statement for the following:

= 10 if $x < 0$

Y=0 if $x = 0$

=20 if $x > 0$

- (iv) What is type casting and conversion.
- (v) Define recursion.
- (vi) What is function parameter. What different types of storage class.
- (vii) What is a string constant? How it is initialized?

Unit-1

- 2. Explain the use of print and scan functions with all formatting facilities. Give suitable examples.
- 3. Write short note on following.
 - (a) Constants and symbolic constant
 - (b) Data types used in 'C'

Unit-II

- 4. What are expressions and operators? Explain various operators available in 'C' language. Give examples of each operator.
- 5. Write short note on following:

- (a) Operator precedence and Associativity
- (b) Switch statement.

Unit-III

- 6. (a) What are various looping statements available in 'C'. explain each with suitable example. Differentiate between while and do while loop.
(c) What are jumping control statement?
- 7. What is the use of function in 'C'? write a 'C' program for generating Fibonacci series (0,1,1,2,3,5,8,13,.....) using the concept of recursion.

Unit-IV

- 8. Write a program to read a line of text and output the number of words and characters in it.
- 9. (a) Define the term array. Explain initialization and processing of one and multidimensional array with an example.
(b) How can you pass arrays to functions. Explain with example.