BCA/D-16
PROGRAMMING IN C
PAPER-BCA-116

Time Allowed: 3 Hours   Maximum Marks: 80

Note: Attempt five questions in all. Question No. 1 is compulsory. All questions carry equal marks.

Compulsory Question

1. (i)   Illustrate the rules for constructing variable names.
   (ii) Who developed 'C' language and in which year?
   (iii) Describe Comma operator with example.
   (iv) Justify that to go statement can not be used to transfer control from outside to inside the loop.
   (v)   What is purpose of break & continue statement?
   (vi) What two important conditions must be satisfied by any recursive function?
   (vii) What happens when a variable is not initialized in main function?
   (viii) What will be output when you execute following code:
         # include < stdio.h>
         Void main ( )
         { Char name [7] = "NETWORK": print f ("%s", name):}

Unit-I

2. Explain getch ( ), getche ( ), getchar ( ) and gets ( ) functions with example.
3. (a) Illustrate the importance of 'C' language.
   (b) What are escape sequences? Write a program to output message in double quotes.

Unit-II

4. (a) What is the purpose of if-else statement? What are the two different forms of if-else statement? How they differ? Explain with example.
   (b) Write a program to find the largest among three numbers.

5. Explain bitwise and unary operators available in 'C'. Illustrate the importance of bitwise operators with suitable example.

Unit-III

6. (a) What is Parameter passing? Explain, with example, Parameter passing schemes supported by 'C'.
   (b) What is function prototype? What is their purpose? Whaer within a program are function prototype normally placed?

7. Write a 'C' program to find sum & reverse of digits of a positive integer using do ………… while control statement.

Unit-IV

8. What does a storage classmean? Describe the features of different storage classes available in 'C'.

9. Write a program to check whether a given string is palindrome or not.