



Seat No. : _____

TE-122

BCA (Sem.-I)

May-2013

CC102 Problem Solving & C Programming

Time : 3 Hours]

[Max. Marks : 70

1. (A) Explain Machine language with all its limitations and features. 7
OR
Explain Assembly language with all its limitations and features.
- (B) (1) Write a algorithm to find that the number is palindrome or not. 3
(2) Draw a flow chart to read n numbers and print odd numbers up to n. 4
OR
(1) Write an algorithm to print n terms of Fibonacci series.
(2) Draw a flowchart to find maximum number from three numbers.
2. (A) Explain basic structure of C program with its execution steps. 7
OR
Explain getchar(), putchar() and printf() functions with its prototype and example.
- (B) Write note on : “Type casting”. 7
OR
Define terms: 1. storage class. 2. identifier 3. Keyword.
3. (A) Explain different types of if statements in C language with example. 7
OR
Explain While loop with example. Differentiate While and Do while.
- (B) Explain switch statement with its benefits and limitations. 7
OR
Explain keywords: 1. Break 2. Continue
4. (A) Define Array. Explain types of array. How can you initialize an array ? 7
OR
Write steps to find the maximum number from one dimensional array.
- (B) Explain String functions to find length of string and compare two strings. 7
OR
What is string ? String ends with which character ? Explain function to copy one string in another string.

5. Attempt following :

- (1) Define Algorithm.
- (2) Which symbols are used in flowchart ?
- (3) Define Non-procedural language.
- (4) Which are different types of comments in C language ?
- (5) Explain ++ prefix and ++ Postfix operator.
- (6) Explain conditional operator.
- (7) What is constant ?
- (8) Explain #define statement.
- (9) Generate an output with for loop:
1
2 2
3 3 3
- (10) Explain exit() function.
- (11) Change the for loop to while loop.
for(j=1;j<10;j=j+1)
printf(j);
- (12) _____ is the process of arranging elements of an array in order.
- (13) Identify error: if any, in the following initialization statements.
Int a[2, 4] = {(0,0,0,0) (1,1,1,1)}:
- (14) Identify error: if any, in the following code.
char s1[5],s2[10],
gets(s1,s2);
