

MCA (Revised)/BCA (Revised)**Term-End Examination****June, 2014****MCS-011 : PROBLEM SOLVING AND
PROGRAMMING***Time : 3 hours**Maximum Marks : 100**(Weightage 75%)*

Note : Question Number 1 is compulsory. Answer any three questions from the rest.

1. (a) Write an algorithm and draw corresponding flowchart to calculate the factorial of a given number. **10**
- (b) Using recursion, generate 'n' terms of fibonacci series ($n > 0$). **10**
- (c) Using file handling, create a file, insert some characters and count them. **10**
- (d) Using pointers concept, reverse a given string. **10**
2. (a) Write a program to find the string length without using `strlen ()` function. **10**
- (b) Write a program using C to calculate the Net salary if the basic, TA, DA, allowances and deductions are given, using structures concept. **10**

3. (a) What is the use of *continue* statement ? 5
Explain with an example.
- (b) Explain any four string functions with 10
example for each.
- (c) How will you write a function with no 5
arguments and with return value ? Give an
example.
4. (a) Write a program to swap two values, using 10
cell-by-value method.
- (b) Write a program in C to multiply two 10
matrices A and B.
5. (a) Write a macro to display the string COBOL 10
in the following pattern.
C
C O
C O B
C O B O
C O B O L
- (b) Define a macro to find maximum among of 10
3 given numbers using # ifdef, # else.
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