MCS-011

MCA (Revised)/BCA (Revised) Term-End Examination June, 2014

MCS-011 : PROBLEM SOLVING AND PROGRAMMING

Time : 3 hours

13639

Maximum Marks : **100** (Weightage 75%)

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

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

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- 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.
 - С
 - СО
 - СОВ
 - СОВО
 - COBOL
 - (b) Define a macro to find maximum among of **10** 3 given numbers using # ifdef, # else.