No. of Printed Pages: 2

MCS-011

MCA (Revised) / BCA (Revised) Term-End Examination

05076

December, 2016

MCS-011 : PROBLEM SOLVING AND PROGRAMMING

Time: 3 hours

Maximum Marks: 100

(Weightage 75%)

Note: Question no. 1 is **compulsory**. Attempt any **three** questions from the rest.

1. (a) Give the structure of a C program. Develop an algorithm, a flow chart and a program to add "n" numbers and find their average.

10

(b) Write a C program to illustrate how the marks of 10 students are read in an array and then used to find the maximum marks obtained by a student in the class.

10

(c) Using pointers, write a C program to find out the position and address of the first occurrence of any character given as input in a string.

10

(d) Write a program, using files, to copy the contents of one file to another with a different file name.

10

2.	(a)	Write a program to initialize 3 names in an array of strings and display them.	5
	(b)	What is Call By Value? Give an example.	5
	(c)	Explain function prototypes with an example for each.	10
3.	(a)	Write a program to print the first 10 even numbers using "goto" statement.	10
	(b)	Write a program to read two strings and append the second string to the first string, using arrays.	10
4.	(a)	Write a program to swap the values using the Pass by Value and Pass by Reference methods, separately.	10
	(b)	Write a program to test whether the given string is a palindrome or not.	10
5.	(a)	What is a macro? Write a macro to demonstrate #define, #if, #else preprocessor commands.	10
	(b)	Write a program using fread() and fwrite() to create a file of records and then read and print the same file.	10