

MCA (Revised) / BCA (Revised)

Term-End Examination

December, 2016

05076

**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
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