

MCA-03

December - Examination 2015

MCA 1st Year Examination**Computer Programming Using C****Paper - MCA-03****Time : 3 Hours]****[Max. Marks :- 80**

Note: The question paper is divided into three sections A, B and C. Write answers as per given instructions.

Section - A

8 x 2 = 16

(Very Short Answer Questions)

Note: Answer all questions. As per the nature of the question delimit your answer in one word, one sentence or maximum up to 30 words. Each question carries 2 marks.

- 1) (i) What is reserve word?
- (ii) Define Pseudo Code
- (iii) What is pointer?
- (iv) Define process.
- (v) Write the syntax of structure in C Programming language.
- (vi) What is the use of modulo (%) operator?

(vii) What is unary operator?

(viii) Assuming that `int num[]` is an one-dimensional array of type `int`, how you will find third element in the array?

Section - B

4 x 8 = 32

(Short Answer Questions)

Note: Answer any four questions. Each answer should not exceed 200 words. Each question carries 8 marks.

- 2) What is Program? Describe some characteristics of a good program.
- 3) Explain any five string manipulation library functions with examples.
- 4) What are primitive and non-primitive data types?
- 5) Write and explain any two pre-processor directives in C.
- 6) Explain different types of document view in MS-Word.
- 7) Explain the use of break and continue statement in loops with example.
- 8) Difference between Actual Parameter and Formal Parameter in function.
- 9) Write a C program to read and display a text from the file.

Section - C

2 x 16 = 32

(Long Answer Questions)

Note: Answer any two questions. You have to delimit your each answer maximum upto 500 words. Each question carries 16 marks.

- 10) Differentiate Top-down approach and Bottom-up approach with example.
 - 11) Write the guidelines to use printf() function in C language with suitable example.
 - 12) Design and develop a C program to read a year as an input and find whether it is leap year or not. Also consider end of the centuries.
 - 13) What is an array? Explain the declaration and initialization of one and two dimensional arrays with example.
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