



### End Term Examination (December 2019)

**School:** School of Engineering

**Program:** B.Tech First Year (Div-C)

**Course:** Programming in C

**Course Code:** CSC105

**Semester:** I

**Max Marks:** 40

**Duration (mins) :** 90

**Q 1. Answer any FIVE questions.**

**(Each question carries 2 marks)**

**[10]**

- Define an algorithm.
- Give the meaning of this declaration: `int *ptr`
- What is an array and how to initialize an array.
- What is difference between 'while' and 'do while' Loop?
- What is local and global variables?
- Design an algorithm as well as flowchart for finding out largest number out of three given numbers.
- What is the difference between variable declaration and variable initialization?
- What is Structure in C?

**Q 2. Answer any TWO questions.**

**(Each question carries 5 marks)**

**[10]**

- What is data type? Explain different data types in detail with examples.
- Write a program for bitwise operators in C.
- Write a C program to input character from the user and check whether the character is in uppercase or lowercase.

**Q.3 Answer any TWO questions.**

**(Each question carries 5 marks)**

**[10]**

- a) Explain the syntax of switch statement. Give suitable example.
- b) What is 'function'? Write a Program to swap two values using call by reference.
- c) What is pointer? Explain array of pointers with example.

**Q.4 .Answer any ONE question. (Each Question carry 10 mark)**

**[10]**

- a) An array X [-15.....10, 15.....40] requires one byte of storage. If beginning location is 1500 determine the location of X [15][20]. (Row major order and column major order)
- b) Explain declaration and initialization of Strings with any program.
- c) Explain types of operators with suitable programs in C.

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