

Roll No. 

Total No. of Pages : 02

Total No. of Questions : 09

**B.Tech. (Software Engineering) (Sem.-1)****PROGRAMMING FOR ENGINEERS-I**

Subject Code : SE-1110

M.Code : 77251

Time : 3 Hrs.

Max. Marks : 60

**INSTRUCTIONS TO CANDIDATES :**

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION - B & C. have FOUR questions each.
3. Attempt any FIVE questions from SECTION B & C carrying EIGHT marks each.
4. Select atleast TWO questions from SECTION - B & C.

**SECTION-A****1) Write briefly :**

- a) What is the syntax of nested If statement?
- b) What is a conditional operator in C++?
- c) What is a case statement?
- d) What is arithmetic operator?
- e) Differentiate between compiler & interpreter.
- f) What is a function?
- g) How many byte are required for Int a[20] statement?
- h) What is an algorithm?
- i) How structure is represented?
- j) What is a conditional statement?

**SECTION-B**

- 2) Write a program to find the difference of two matrix.
- 3) Draw flow chart to find the largest and smallest of four numbers.
- 4) Write a program to sort a given list of numbers in ascending order.
- 5) Write short notes on the following :
  - a) Break and continue
  - b) Passing value between functions.

**SECTION-C**

- 6) Explain the following terms of C++ language with examples.
  - a) Static variables
  - b) External variables
  - c) Automatic variables
- 7) Write a Recursive function for determining the factorial of a given number.
- 8) Write the syntax with two different examples each for :
  - a) Case and
  - b) For loop.
- 9) Write a "C" program to find out a solution for given quadratic equation.

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**