CGC- COLLEGE OF ENGINEERING
LANDRAN (MOHALI)

Date of Exam. 26/02/20

Roll No. 1914282

B.Tech.(App.sci) **MST-1**

Programming for problem Solving (BTPS- 101-18) **(Sem. 2nd) CSE / IT**

Time: 1 Hrs. 30 mins Max. Marks: 24

COURSE OUTCOMES:

CO 1	Understand basics of computer and its parts.
CO 2	Formulate simple algorithms and translate the algorithms to programs (in C language).
CO 3	Implement conditional branching, iteration and recursion.
CO 4	Convert a problem into functions by using searching and sorting techniques on the given list.
CO 5	Use arrays, pointers and structures to formulate algorithms and programs.
CO 6	Apply programming to solve matrix addition and multiplication problems.

INSTRUCTION TO CANDIDATES:

1. SECTION-A is COMPULSORY consisting of four questions carrying TWO marks each.

2. SECTION-B contains three questions carrying four marks each and students have to attempt any two questions. SECTION-C contains three questions carrying four marks each and students have to attempt any TWO questions.

SECTION-A

Q1) Classify jump statements? (2)(CO 3)

Q2) Explain Case statement? (2)(CO 3)

Q3) How many bytes are required for **Int a[20]** statement? (2)(CO 1)

Q4) Describe different types of Array. (2)(CO 5)

SECTION-B

Q5) a) Outline a flow charts to find the smallest and larger out of three numbers. (4) (CO 2)

b) Define strings? Write a program to perform String manipulation function. (1+3) (CO 5)

Q6) Write a "C" program to find out a solution for given Quadratic equation. (4)(CO 2)

Q7) Write a program to perform arithmetic operation on 1-D Array. (4) (CO 5)

SECTION-C

Q8) Write a program to sort a given list of numbers in ascending order. (4)(CO 4)

Q9) Explain the specification of a Latest PC? Also classify the functionality of each of the component. (2+2) (CO 1)

Q10) Discuss the various Control structures available in programming Language? Explain with example? (3+1) (CO 2)