

**Roll No.**

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**Total No. of Pages : 02**

**Total No. of Questions : 09**

**B.Tech (Sem.-1,2)**  
**FUNDAMENTALS OF COMPUTER PROGRAMMING AND IT**  
**Subject Code : BTCS-101**  
**M.Code : 54095**  
**Date of Examination : 19-01-2023**

**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. **Answer 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. What are the latest specifications of computer which can be used as node in a network. Explain?
3. What are the various memories used in computers. Explain with the help of example
4. Write algorithm/flowchart to find the sum of n odd numbers.
5. What are the various features of spreadsheet? Explain.

## SECTION-C

6. Write a “C++” program to find factorial of a given number.
7. Describe the various data types of C++ .
8. Write a C++ program to find out a solution for given-quadratic equation.
9. Explain the meaning and purpose of the following:
  - a) Bit wise operator
  - b) File opening modes
  - c) Pointers
  - d) struct

**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.**