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Total No. of Pages : 02

Total No. of Questions : 18

**B.Tech. (Bio Technology/Civil Engineering/Computer Science & Engineering/Electrical & Electronics Engineering/Electrical Engineering/Electronics & Communication Engineering/Information Technology/Mechanical Engineering) (Sem.–1,2)**  
**FUNDAMENTALS OF COMPUTER PROGRAMMING AND IT**

Subject Code : BTCS-101

M.Code : 54095

Date of Examination : 11-07-22

Time : 3 Hrs.

Max. Marks : 60

**INSTRUCTION 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**

**Write briefly :**

1. What are Local and Global variables?
2. What is a conditional operator in C++?
3. What is a scope of any variable?
4. What is pointers arithmetic?
5. How the CPU's processing power is measured?
6. Explain the difference between source code and object code.
7. What is the meaning of a Bit, byte, KB, MB & GB?
8. What is Recursion?
9. What is a Class?
10. What is Object?

## SECTION-B

11. What are the various features of Word Processor?
12. What are the various output devices of computers? Explain the working principle of each of them.
13. How primary memory is different from secondary memory?
14. Write an algorithm/flowchart to find the sum of even numbers.

## SECTION-C

15. Describe about the various basic data types in C++.
16. Write a program to determine and print the sum of series for a given value of  $n$  :  
$$1 + 1/2 + 1/3 + 1/4 + \dots + 1/n$$
17. Explain about the various control structures in C++ language.
18. Explain how Input / Output operations on files is handled in C.

**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.**