I Semester Degree Examination, March/April 2023
(NEP) (2021-22 and Onwards) (F+R)
(Open Elective)
COMPUTER SCIENCE
Journey into Fundamentals and C Programming Concepts

Time : 2½ Hours

Max. Marks : 60

Instruction : *Answer **all** the Parts.*

PART – A

I. Answer **any four** questions. **Each** question carries **two** marks.   **(4×2=8)**

1) What is Anti virus ? Give example.

2) Convert $1101_{(2)}$ to decimal number.

3) What is operating system ? Give example.

4) What is variable ? How to define it ?

5) What is loop ? What are its types ?

6) What is type conversion ?

PART – B

II. Answer **any four** questions. **Each** question carries **five** marks.   **(4×5=20)**

7) With diagram explain the basic organization (parts) of the computer system.

8) Write a algorithm to convert from decimal number to binary number.

9) List and explain the functions of operating system.

10) Explain the structure of C program.

11) Write the difference between while loop and do while loop.

12) Write a C program to print biggest of three numbers.

PART – C

III. Answer **any four** questions. **Each** question carries **eight** marks.   (4×8=32)

13) a) What is an Algorithm ? Write a algorithm to check whether the number is even
         or odd.   **4**

     b) Explain computer language and translator program.   **4**

14) Convert the following number.   **8**

     i) $952_{(10)} = ?_{(8)}$ (Decimal to Octal).

     ii) $1AF_{(16)} = ?_{(10)}$ (Hexadecimal to Decimal).

     iii) $650_{(8)} = ?_{(2)}$ (Octal to Binary).

     iv) $111_{(2)} = ?_{(10)}$ (Binary to Decimal).

15) a) List any four inbuilt application in windows operating system and
         mention its uses.   **4**

     b) Mention the uses of :   **4**

         i)   Files   ii) Folders   iii) Search bar   iv) Recycle bin.

16) a) List and explain the data type supported by C language.   **4**

     b) Explain gets() and puts() functions with examples.   **4**

17) List and explain bitwise operator. Give example.   **8**

18) a) Write a C program to print the sum of a digits of a number.   **4**

     b) Explain break and continue statements.   **4**

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