FACULTY OF SCIENCE
B.Sc. CBCS I-Year (I-Semester) Regular Examinations, February/March-2023
Computer Science-I
(Programming in C)

Time: 3 Hours   Max Marks: 80

SECTION-A   (4x5=20 Marks)
Answer any Four questions from the following

1.   Explain type conversion in C with examples.

2.   Write the basic structure of C program.

3.   Explain formatted input and output functions in 'C' with examples.

4.   Write a C program to print odd numbers between 2 to 30 using while loop.

5.   Explain and differentiate call-by-value and call-by-reference mechanism.

6.   List and explain various storage classes in 'C' with examples.

7.   Discuss Enumerated data type in C.

8.   Write the differences between **Structures** and **Unions**.

SECTION-B   (4x15=60 Marks)
Answer all the following questions

9.   (a) Explain in detail different data types in C with suitable examples.
                        (OR)
        (b) Define an Algorithm? Explain the Process of Creating, Compiling, Linking and Executing
            using a C Program.

10.   (a) Write about **break** and **continue** statements. Explain **switch** statement in 'C' with an
            example.
                        (OR)
        (b) Define an Array with an example. Write C program to read 'n' elements and find the sum
            of 'n' elements in an array.

11.   (a) Explain passing arrays to functions with suitable C Program. Write its advantages.
                        (OR)
        (b) Explain with suitable examples pointer to pointers and Array of pointers. Write there
            advantages.

12.   (a) Define **Structure**? Explain how do you initialize structure variables and access structure
            members in 'C' with examples.
                        (OR)
        (b) What are text files and how does it differ from binary files? Discuss opening and closing
            functions of a file with 'C' program.