**Question Bank**

**UNIT I**

1. Write and explain the structure of a C program
2. What is a token? Write in brief about C tokens.
3. Write in detail about conditional statements in C
4. Write in detail about loop statements in C
5. Write about the functioning of the jump statements, ***break*** and ***continue*** with suitable examples.
6. What is a data type? Write in brief about the data types in C.
7. List down various format codes used in input and output statements.
8. Write in detail about input and output statements in C.
9. Write a program to evaluate the following series:

X+ X2/2! +X3/3! + X4/4! +…+Xn/n!

1. Write code segments for displaying numbers from 1 to 10 using do .. while , while and for statements.
2. What are the rules to be followed in naming a variable?
3. What are the various steps involved in executing a C program.
4. What is an expression? Give examples of arithmetic, relational and logical expressions
5. What are precedence and associativity of operators? Explain them with an example.

**UNIT II**

1. What is a function? What are the advantages of using functions in a program
2. Compare library functions and user-defined functions.
3. What is the general form of a C function? Explain how to use a function in a C program
4. Write in brief about passing a value/call by value and passing an address/call by reference in C
5. Write about the functioning of nested functions
6. What is a recursive function? Explain the working of recursive function with an example
7. What is an array? Explain the syntax of declaring one dimensional and two dimensional arrays.
8. Write a program to find the maximum element in an array.
9. What are the storage classes in C. Explain their usage with suitable examples
10. Use a recursive function to evaluate,

F(x) = x- x3/3! + x5/5! - x7/7! +…..

1. Explain (a) Linear Search and (b) Binary Search
2. Write a function to sort a given set of elements using Bubble Sort.
3. What is a pointer? What are the advantages of using pointers in C.
4. Explain pointer arithmetic with an example.
5. Write a program to display the elements of an array using pointers.
6. What is dynamic memory allocation? Write and explain the memory management functions used for dynamic memory allocation.