**Unit-1 Question Bank**

1. Describe the applications and advantages of computers.
2. What are the various steps involved in program development?
3. What is a programming language? Explain the types and categories of programming languages.
4. Describe the most important features that would make a programming language efficient and easy to use.
5. Describe the evolution and characteristics of the C language.
6. With a help of a program, explain the basic structure of the C program.
7. List and explain the types of the token in C language. Give examples for each.
8. What is a variable? Describe the four fundamental data types in C.
9. Write a short note on
   1. shorthand assignment operators.
   2. Symbolic constants
10. Explain the different types of operators in C.
11. With a help of an example, explain the evaluation of Arithmetic expressions.
12. Write a program to illustrate the use of bitwise shift operators and ternary operators.
13. What is type conversion? Explain the types of conversion with a help of a program.
14. Discuss the precedence and associativity of C operators.
15. Describe the two methods of data input. What are basic data types available in “C”? Write the significance of each data type.
16. What are the formatted input and output functions? Explain with example
17. What is an identifier (variable)? What are the rules to construct identifier (variable)? Classify the following as valid/invalid Identifiers. i) num2 ii) $num1 iii) +add iv) a\_2 v) 199\_space vi) \_apple vii)#12
18. Write a C program that computes the size of int, float, double, and char variables.
19. Write a C program in C to find the area and perimeter of a circle.
20. Write a program in C to print the numbers from 4 to 9 and their squares.
21. Write a C program that takes as input p, t, r. Compute the simple interest and display the result.
22. Write a C program to find the area of the triangle when we know the lengths of all three of its sides.
23. What is an expression? Evaluate the following expressions
    1. 100 % 20 < = 20 – 5 + 100 % 10 – 20 = = 5 > = 1 != 20
    2. a + = b \* = C - = 5 where a=3 b=5 and c=8