

1. What do you mean by Structured Programming? What are the steps of “programming process”?
2. List some characteristics/features of C programming Language. Briefly describe the features of a typical C program.
3. Mention some rules of naming a C identifier (variable, function etc.)
4. How many Keywords in C? Mention 5 of them. Can we use those words as variable name in our own program? Are ‘include’ and ‘define’ are keywords?
5. How many primitive data types in C? List them with typical memory requirement for each of them.
6. Give example how we can use back slash (\) as escape sequence to display/use non-printable, octal and hexa-decimal number.
7. Write down the syntax of **declaring** and **initializing** a variable. Give example for integer, double and character type variables.
8. Why and how we use #define in C?
9. How can we type-cast (convert) a vale from one type to another-write the syntax? If an expression has different types of variable, in what precedence value will be auto-casted?
10. What do you mean by unary operator? List some names of unary operators.
11. What are the main categories of Operators in C? Name at least 3 symbols and meaning of each type of operator.
12. Briefly describe following library functions with example: [see **appendix H**]

Ceil(), exp(), pow(), sqrt(), floor(), strcmp(), strcpy(), strlen()

13. What are the differences among getchar(), getche() and getch()?
14. Suppose I want to give input only among ABCDEFG123450 characters. How will I have to write the scanf function?
15. What is the difference between input formatted function scanf(“%4d”,&x) and output formatted function printf(“%4d”, x)?
16. What are the selection statements used in C? Write syntax of each. What is the difference between **switch** and **if...else** statements?
17. Write the syntax of all iteration control statements. Whar is the difference between **while** and **do...while** loop?
18. What re the differences between **break** and **continue** statements?
19. Write the syntax of a function definition? Why the parameters of a function prototype are called dummy parameters?
20. What is a recursive function? What are the conditions of a recursive function?