Sample questions:

1. Explain break and continue statements.
2. Demonstrate the usage of a switch statement with an example.
3. Explain the use of printf and scanf functions with all formatting facilities.
4. Write a program to multiply 2 Matrices.
5. Explain the different kinds of loops available in C with examples.
6. Give differences between while statement and a Do- while statement in C with an example program.
7. What is an array? Define an array to store marks of 30 students in 3 subjects.
8. Design an algorithm as well as flowchart for finding out largest number out of three given numbers.
9. What is a data type? Explain different data types in detail with examples.
10. What is a loop? Explain in detail with example.
11. What is an operator? Explain the arithmetic, relational, logical, and assignment operators in C language.
12. Explain any five string manipulation library functions with examples.
13. Explain the array of pointers with example.
14. **Write a program to**[**add two matrices**](https://www.geeksforgeeks.org/c-program-addition-two-matrices/)**of dimension 3\*3 and store the result in another matrix.**
15. Explain about the different types of operating system
16. Design and develop a C program to reverse of an integer number NUM and check whether it is PALINDROME or NOT.
17. What is a pointer? Explain how the pointer variable declared and initialized.
18. Explain different bitwise operators available in C with examples.

Q. 1. a). What is an algorithm? 2.5 X10

b) What do you mean by Program? Write a small code for any program. c). What is the difference between while and do while loop.

d). What is the use of getchar and putchar.

1. Explain break and continue statements.
2. What is an array?
3. What is the difference between structure and union.
4. What is a pointer?
5. Explain difference between variables and constants.
6. What is a static variable?

Unit-1

Q. 2. Design an algorithm as well as flowchart for finding out largest number out of three given numbers. 12.5 Q 3. Explain different types of programming languages. 12.5

Unit-2

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| --- | --- |
| Q4. What is a data type? Explain different data types in detail with examples. | 12.5 |
| Q 5. a) Write a program to check whether a given number is even or odd. | 6.5 |
| b) Explain selection statements in C. | 6 |

Unit-3

Q6. What is a loop? Explain in detail with example. 12.5

Q 7. Write a program to multiply two matrices. 12.5

Q 8. Structures and union programs

Unit-5

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| Q. 8. Write a program to swap two values using call by value and call by reference. | 12.5 |
| Q.9. Write short notes on: |  |
| a) preprocessors | 6.5 |
| b) File Handling  c) Command line arguments | 6 |

Refer this link for how to write the answers for the questions

<https://www.geeksforgeeks.org/aktu-1st-year-sem-2-solved-paper-2017-18-comp-system-c-programming-sec-c/>