TCS NINJA INTERVIEW

Interview Questions: The list of questions asked in the previous year.

1. **Briefly introduce yourself:**
   Please prepare for a minimum of 75 to 90 seconds introduction about yourself. Anything less than that, you will be jeopardizing your chances.

2. **Questions from your resume:**
   Kindly carry your updated resume. Please proof check your resume thoroughly. Ensure there are no typos and the alignment is done properly. Please spend some time on your resume. Know the contents of your entire resume thoroughly.

3. **Introduce Yourself With Your Complete Technical Details.**

4. **Questions related to your internship and college project.**

5. **Your strengths and weaknesses.**

6. **What is the latest version of java in the market?**

7. **What is the latest version of Android studio in the market? And on which you had worked in the past? What is the difference between these versions?**

8. **Write a program in C and Java both to reverse the string without using any function.**

9. **Write a SQL query to find the employee name with the 2nd highest salary.**

10. **What is trigger?**

11. **What do you mean by joins in SQL? Explain its type.**

12. **How will you handle pressure?**

13. **Are you comfortable working in night shift?**
    Tip: Say yes during the interview. They are trying to find out how flexible you are.

14. **Are you ok with the 2-year bond?**
    Tip: Say yes.

15. **Why do you want to join TCS?**
    Tip: Talk about the legacy of TCS. How big the company is. Talk about the values of Tata brand.

16. **Are you ready to relocate anywhere across India?**
    Tip: Say yes.

17. **If you are a Team Leader and one of your assistant is not working up to the mark and due to him/her, the project is being delayed. How will you handle this situation?**
18. **Which fields are you interested in and why?**
19. **What is a subnet mask? Difference between TCP and UDP? Explain TCP IP protocol?**
20. **Basic DBMS questions like ACID Properties, DeadLock, Concurrency, Heap.**
21. **Difference between DBMS and RDBMS.**
22. **NoSQL Database, some examples of NoSql Database.**
23. **Call by value and call by reference**
24. **What is polymorphic, what is inheritance, function overloading, static variable**
25. **Artificial Intelligence, Machine Learning, Big Data, Cloud**
    Tip: Please know what is AI, ML, Big Data and Cloud thoroughly.
26. **Classification of Machine Learning**
27. **What is virtual Table?**
28. **How you will face and manage challenges that comes when you work in the IT industry?**
29. **What is your weakness? How will you overcome it?**
30. **Your family background.**
31. **What will you do if we do not hire you?**
32. **Difference between C & C++**
33. **What is Class?**
34. **Virtual Function, Prototype of virtual function, why we use virtual function**
35. **Define and explain access specifiers. Why do we use it?**
36. **Are you an interesting person?**
37. **Which is your favourite subject?**
    Tip: Be prepared to be grilled thoroughly on based on your answer. If you say DBMS, know the in and out of DBMS
38. **Do you like programming?**
39. **What is Dangling pointer?**
40. **What is a Binary Search Tree?**
41. **What is Normalization?**

42. **Builders of OOP**
43. **Full form of TCS, its CEO, tagline, logo. 44.what is oops? give an example.**
44. **What is an object?**
45. **Differentiate between Abstract class and Interface? In what scenarios do we use each of them?**
46. **Differentiate between sets and List (some students were also asked output of a program based on sets**
47. **Differentiate between vector and Array list.**
48. **What do you know about Jswing?**
49. **What do you mean by applet and servlet?**
50. **What do you mean by joins in sql?**
51. **Explain outer join.**
52. **On which database version you are working?**
53. **What is OLAP and OLTP?**
54. **What is CRUD (JDBC Operations)**
55. **What is diff b/w AWT and Swings**
56. **What is AWS?**
57. **What is Microsoft Azure**
58. **What are the latest IT trends in market**
59. **Quicksort, what is its time complexity, in worst case?**
60. **In how many ways we can traverse a graph?**
61. **JDBC Connection code**
62. **What are Design Patterns, example of any one design pattern.**
63. **What do you know about github?**
64. **Basic commands in github**
65. **SQL commands(pdrun, fid)?**
66. **What is spread spectrum?**
67. **What are the steps involved in demodulating A signal?**
68. **What is the concept of Oop?**

69. Codes asked for NON CS students:

Swap two number without using a third variable Generate Fibonacci series starting from 0
GCD of two numbers
Check whether a number is palindrome or not Factorial of a number
Check if the year is a leap year or not LCM of two numbers

70. What do you think is the biggest strength of TCS?

71. Where do you see yourself in the next 5 years?

72. What is cloud computing, application of cloud computing, SAAS?

73. Do you know any real-time applications of cloud computing?

74. What is a linear data structure?

75. Explain quick sort with algorithm and example?

76. Given an array, how will you search an element in the most efficient manner?

77. Difference between execution and error?

78. Tell me something which is not a part of your resume?

79. What are u doing to improve your communication skills?

80. Who built C?

81. Difference between Call by Value and Call by Address?

82. Difference between merge sort and insertion sort?

83. Example of merge sort.

84. How to count the elements of a String?

85. Basics about structure, linked list, queue.

86. What is Dangling Pointer?

87. Basic SQL queries?

88. C program to check whether a number is prime.

89. What is a double pointer?

90. Difference between C and C++.

91. OOPs concepts – All the definitions of OOPs concepts

92. Difference between while and do while.

93. Interface definition

94. Platform dependency

95. JVM

96. Difference between 2 stroke and 4 stroke (for Mechanical students)

97. What are the properties of intrinsic semiconductor?

98. What is modulation and its types?

99. What is the difference between electronics and electricals?

100. Synchronization in java critical region

101. Shared memory

102. Complexity of algorithms

103. Delete a node from a doubly linked list

104. Vision and Mission of TCS

105. Basic Questions on Computer Networks and Operating system.