**CTC Test 1**

1. Problems on trains
2. Volume and surface area
3. HCF and LCM
4. Boats and Streams
5. Probability
6. Heights and Elevation
7. Clock and Time
8. Data Interpretation

**CTC Test 2**

1. Pipes and Cisterns
2. Profit and Loss
3. Permutation and combination
4. Compound Interest and Simple Interest
5. Time and Work
6. Problems on age
7. Ratio and Proportion
8. Patterns and Logical Reasoning

And verbal logical reasoning

**CTC Test 3**

Aptitude topics common for all branches:

1. Numbers and Series: https://www.indiabix.com/logical-reasoning/number-series/
2. Allegation and mixture
3. Calendar
4. Blood Relationship
5. Simple interest: https://www.indiabix.com/aptitude/simple-interest/formulas
6. Averages
7. Percentage: https://www.indiabix.com/aptitude/percentage/
8. Partnership: <https://www.youtube.com/watch?v=hn9TKnr8L_8>

Reading Comprehension: https://www.indiabix.com/verbal-ability/comprehension/

Logical Reasoning: https://www.indiabix.com/logical-reasoning/questions-and-answers/

Technical:

**CSE:**

* + - 1. Data Structures
      2. Algorithms
      3. C++

**ISE:**

1. Passage Type questions
2. C++ / C (Keywords, Data Types, Operators etc)
3. OOP
4. Pointers and Structures
5. Access Modifiers
6. Code Snippets
7. Stacks, Queues and Linked Lists
8. OS - Threads, Deadlocks, Virtualization
9. Banker’s Algorithm
10. Thrashing and Segmentation in OS
11. OS Scheduling Algorithms (all)

**CTC Test 4** 30 Technical questions + 1 Code

**CSE:**

* + - 1. Data Structures & Algorithms
      2. DBMS
      3. Operating Systems
      4. Computer Networks
      5. Coding question

**ISE:**

1. All searching and Sorting Algorithm
2. Asymptotic Notations
3. Complexity Analysis
4. BST and Tree Traversal
5. AVL Tree
6. HashMap’ and HashSet DS
7. Processes in OS
8. Memory Management
9. Linux
10. OSI and TCP/IP models
11. HTTP packets
12. IP address, UDP, TCP, DNS
13. DHCP, SSH, FTP etc
14. coding

**CTC Test 5**

**CSE:** 10 technical + 2 coding

java

python

2 coding questions

**ISE:** 10 technical + 2 coding

1. SQL queries (clause, ALL joins)
2. Keys
3. ER and Schema
4. Database Dependencies and Languages (DDL, DML, DCL)
5. ACID and CAP
6. Codd Rules
7. DB Normalization, DB Transaction
8. Complex Queries
9. Topology, Subnet