



All India SDE test series

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nd Test Syllabus

Active Date: 25th May 2019, **Active till:** 25th May 2020

Theme: Laying my foundation

Topic #1 - Logic building for programming

- ✓ Solve a problem through general problem-solving techniques such as restating the problem, dividing the problem into sub-problems, looking for analogies, etc.

Topic #2 - Logical reasoning.

- ✓ Establish logical relations between various events through logical reasoning.
- ✓ Solve syllogism-based problems to derive a correct conclusion from given premises.
- ✓ Use logical connectives such as negation, conjunction, disjunction, and material implication.

Topic #3 - Core computer science - Data structures.

- ✓ Understand how data structures are defined and how they are allocated memory
- ✓ Implement arrays, linked lists, stacks and queues through real-world coding challenges.

Topic #4 - Core computer science - Algorithms.

- ✓ Solve problems using search and sort algorithms.

Topic #5 - Core computer science - Dynamic programming.

- ✓ Identify problems that can be solved using dynamic programming.
- ✓ Write code to implement dynamic programming for a given DP-based problem.

Topic #6 - Core computer science - System design.

- ✓ Understand the design logic of globally popular products like Google Drive, Uber and Dropbox.
- ✓ Establish your confidence and skills in performing the gathering and clarifying of requirements.

Topic #7 - High-order thinking.

- ✓ Read a case study and analyze it holistically to answer some open-ended questions.
- ✓ Use the knowledge level of bloom taxonomy and comprehend the knowledge to justify certain possibilities.

Topic #8 - Communication and cognitive skills.

- ✓ Answer workplace-like situational or scenario-based questions that involve best practices for communication.
- ✓ Answer situational questions that check your cognitive skills.

Topic #9 - Tech interview round & tech puzzles.

- ✓ Answer common technical questions asked from candidates' recent projects.
- ✓ Answer architecture-based questions concerning your views on performance and optimization.

Topic #10 - HR interview round & business puzzles.

- ✓ Answer common HR round questions asked in most interviews.
- ✓ Answer STAR-based questions asked by HR managers.