Infosys Interview Preparation Guide

A practical 30-day plan for Systems Engineer, Digital Specialist Engineer, and Specialist Programmer / Power Programmer roles.

How to use this guide

Use this guide alongside the Infosys Interview Guide. Your preparation should match your target track: **Systems Engineer (SE)** for strong fundamentals, **Digital Specialist Engineer (DSE)** for cloud, AI/ML, data and full-stack depth, and **Specialist Programmer / Power Programmer (SP/PP)** for advanced DSA and problem solving.

The typical Infosys fresher process includes an online assessment, technical interview, and HR interview; some drives also include a managerial round. The online assessment may include mathematical ability, analytical reasoning, verbal ability, pseudocode, puzzles, English grammar, writing, and coding questions.

30-Day Preparation Plan

Days	Focus	Daily target	Deliverable
1–3	Assessment baseline	Take one full mock test; identify weak sections in aptitude, reasoning, verbal, pseudocode and coding.	Weakness report
4–8	Aptitude and reasoning	Practise percentages, ratios, time-work, profit-loss, data interpretation, series, seating, blood relations and puzzles.	100+ solved questions
9–12	Programming and pseudocode	Revise one language deeply: Python, Java, C, or C++. Practise loops, functions, arrays, strings, recursion and dry runs.	50 pseudocode/coding questions
13–17	DSA fundamentals	Solve arrays, strings, hashing, stacks, queues, linked lists, searching, sorting and recursion.	40–60 DSA problems
18–21	OOPs, DBMS and SQL	Prepare OOP principles, constructors, inheritance, polymorphism, abstraction; practise joins, GROUP BY, subqueries and normalization.	20 SQL queries + notes
22–24	Projects and resume	Prepare two projects with architecture, tech stack, your contribution, challenges and results. Update resume with measurable outcomes.	Project explanation script
25–27	Role-specific depth	SE: CS fundamentals. DSE: cloud/APIs/DevOps/AI-ML. SP/PP: trees, graphs, DP, system design basics.	Role-specific notes
28–29	Mock interviews	Do two technical mocks and one HR mock. Record answers to “Tell me about yourself”, “Why Infosys?” and relocation/shift questions.	Interview feedback
30	Final revision	Revise formulas, SQL, OOPs, DSA patterns, project answers and HR responses. Prepare documents and test setup.	Final checklist

Role-wise preparation priorities

Track	Priority topics	Coding level	Extra preparation
Systems Engineer	Aptitude, pseudocode, OOPs, SQL, DBMS, OS, CN, basic DSA	Easy to medium	Clear project explanation and communication
Digital Specialist Engineer	Full-stack, APIs, cloud, Docker, CI/CD, AI/ML or data engineering	Medium	Hands-on project, cloud fundamentals, REST API knowledge
Specialist / Power Programmer	DSA, algorithms, complexity, trees, graphs, DP, system design	Medium to hard	Competitive programming, optimization, edge cases

Technical interview question bank

Programming and OOPs

• Explain the four pillars of OOP with examples from your project.

• What is the difference between method overloading and method overriding?

• Explain abstraction versus encapsulation.

• What are constructors, static methods and access modifiers?

• Explain arrays, strings, linked lists, stacks and queues.

• What is recursion? Convert a simple recursive function into an iterative version.

• Explain time and space complexity for your preferred sorting algorithm.

• Write a program to reverse a string, check for a palindrome, find factorial, or merge two sorted arrays.

DBMS and SQL

• Explain primary key, foreign key, candidate key and unique key.

• What is normalization? Explain 1NF, 2NF and 3NF.

• Write a query to find the second-highest salary.

• Explain INNER JOIN, LEFT JOIN, RIGHT JOIN and FULL JOIN.

• What are ACID properties?

• What is an index, and when can it reduce performance?

• Explain DELETE, TRUNCATE and DROP.

Computer science fundamentals

• Difference between process and thread.

• What is a deadlock? How can it be prevented?

• Explain CPU scheduling and memory management.

• Explain the OSI model and TCP/IP model.

• What happens when you type a URL in a browser?

• Explain HTTP methods, status codes, DNS and TCP versus UDP.

Role-specific questions

• DSE: What is a REST API? Explain HTTP methods and common status codes.

• DSE: Difference between EC2 and S3; explain IAM, VPC and load balancers at a high level.

• DSE: What is Docker, and how does it differ from a virtual machine?

• DSE: Explain CI/CD pipeline stages and basic Git workflow.

• SP/PP: Reverse a linked list; detect a cycle; implement LRU cache.

• SP/PP: Explain quicksort complexity; solve tree, graph, dynamic programming and sliding-window problems.

• SP/PP: Design a URL shortener, parking lot, or library management system.

Project explanation template

Prepare a 90-second explanation for every project using this structure:

• **Problem:** What real problem did the project solve?

• **Users and outcome:** Who used it, and what improved because of it?

• **Architecture:** Frontend, backend, database, APIs and deployment, if applicable.

• **Your contribution:** State exactly which modules you built.

• **Technical decisions:** Why did you choose the language, framework, database or cloud service?

• **Challenges:** Describe one bug, performance issue, or design trade-off and how you solved it.

• **Improvements:** What would you add with more time, data or users?

Example: “I built a hostel management system using Java and MySQL. I designed the database schema, built the room-allocation API, and improved query performance by adding indexes. I chose MySQL because the application required transactional consistency for payment and allocation records.”

HR interview preparation

Question	What the interviewer checks	Preparation approach
Tell me about yourself.	Communication, clarity, relevance	60–90 seconds: education, skills, projects, strengths and career goal
Why Infosys?	Research and motivation	Mention learning culture, global projects, digital services and role fit
What are your strengths and weaknesses?	Self-awareness	Give one example-backed strength and one improving weakness
Where do you see yourself in five years?	Career direction	Link growth to engineering depth, ownership and learning
Are you willing to relocate or work in shifts?	Flexibility	Answer honestly; explain any constraints clearly
Describe a conflict in a team.	Collaboration	Use STAR: situation, task, action, result
Why should we hire you?	Fit and confidence	Connect skills, projects and willingness to learn to the role

Seven-day rapid revision plan

Day	Revise	Practice
1	Aptitude formulas and reasoning patterns	30 questions + one mock section
2	Programming syntax, arrays, strings, functions	10 coding/pseudocode questions
3	DSA: arrays, strings, stacks, queues, linked lists	8 problems
4	OOPs, DBMS, SQL and OS/CN notes	10 SQL queries + 20 flashcards
5	Projects, resume and role-specific topics	Project explanation aloud twice
6	HR answers and STAR stories	Mock HR interview
7	Full mock test and final revision	Analyse mistakes and revise weak areas

Final interview checklist

• Carry multiple printed resumes, ID proof, academic certificates and passport photos as required.

• Test webcam, microphone, internet, browser permissions and power backup before an online interview.

• Keep your resume, project repository, certificates and notes open but do not read directly from them.

• Use a quiet, well-lit space; dress formally even for a virtual interview.

• Listen fully, clarify constraints, think aloud, and state your approach before coding.

• If you do not know an answer, say so honestly and explain how you would find the solution.

• Send a brief thank-you message only if appropriate and if you have a professional contact point.

Remember: Infosys interviewers generally value clear fundamentals, honest communication, practical project ownership, and a structured problem-solving approach more than memorised answers.