

GATE 2027 TEST SERIES - PLAN & SCHEDULE

CSE (COMPUTER SCIENCE & ENGINEERING)

Overview

The test series is structured in three rounds to match your preparation journey: topic-wise consolidation, full-subject consolidation, and full-syllabus mocks.

At a glance

- Total tests: 76
- Total questions: 2600+
- Round 0: 36 topic tests + 12 full tests (after topic/subject completion)
- Round 1: 12 full-subject tests (Sep-Nov 2026), 2 hours each, 35 questions
- Round 2: 16 full-syllabus mock tests (Dec 2026-Jan 2027) including 4 AIMTs, 3 hours each, 65 questions

Round 0 - Topic Tests and Full Tests

- After completing each topic and subject, a test is conducted.
- Topic test format: minimum 20 questions (2 marks each), duration 50 minutes.
- Full test format: minimum 35 questions (2 marks each), duration 2 hours.
- Tentative availability is mapped month-wise by subject below.

Round 0 test plan (subject-wise)

Test ID	Test Number	Subject Name	Tentative Month
1	Test- 1	Discrete Mathematics(DM)	Feb - March
2	Test - 2	Discrete Mathematics(DM)	Feb - March
3	Test - 3	Discrete Mathematics(DM)	Feb - March
4	Test - 4	Discrete Mathematics(DM)	Feb - March
5	Test - 5	Discrete Mathematics(DM)	Feb - March
6	Full Test	Discrete Mathematics(DM)	Feb - March
7	Test - 1	C-Programming(C-Prog)	March
8	Full Test	C-Programming(C-Prog)	March
9	Test - 1	Data Structure and Algorithms(DSA)	March - April

Test ID	Test Number	Subject Name	Tentative Month
10	Test - 2	Data Structure and Algorithms(DSA)	March - April
11	Test - 3	Data Structure and Algorithms(DSA)	March - April
12	Test - 4	Data Structure and Algorithms(DSA)	March - April
13	Full Test	Data Structure and Algorithms(DSA)	March - April
14	Test - 1	Computer Network(CN)	April - May
15	Test - 2	Computer Network(CN)	April - May
16	Test - 3	Computer Network(CN)	April - May
17	Test - 4	Computer Network(CN)	April - May
18	Full Test	Computer Network(CN)	April - May
19	Test - 1	Operating System(OS)	May - June
20	Test - 2	Operating System(OS)	May - June
21	Test - 3	Operating System(OS)	May - June
22	Full Test	Operating System(OS)	May - June
23	Test - 1	Digital Logic(DL)	June - July
24	Test - 2	Digital Logic(DL)	June - July
25	Test - 3	Digital Logic(DL)	June - July
26	Full Test	Digital Logic(DL)	June - July
27	Test - 1	Computer Organization and Architecture(COA)	July - August
28	Test - 2	Computer Organization and Architecture(COA)	July - August
29	Test - 3	Computer Organization and Architecture(COA)	July - August
30	Full Test	Computer Organization and Architecture(COA)	July - August
31	Test - 1	Database Management System(DBMS)	August - September
32	Test - 2	Database Management System(DBMS)	August - September
33	Test - 3	Database Management System(DBMS)	August - September
34	Test - 4	Database Management System(DBMS)	August - September
35	Full Test	Database Management System(DBMS)	August - September
36	Test - 1	Theory Of Computation(TOC)	September
37	Test - 2	Theory Of Computation(TOC)	September
38	Full Test	Theory Of Computation(TOC)	September
39	Test - 1	Compiler Design(CD)	September - October
40	Full Test	Compiler Design(CD)	September - October
41	Test - 1	Engineering Mathematics(EM)	April - June
42	Test - 2	Engineering Mathematics(EM)	April - June
43	Test - 3	Engineering Mathematics(EM)	April - June

Test ID	Test Number	Subject Name	Tentative Month
44	Test - 4	Engineering Mathematics(EM)	April - June
45	Full Test	Engineering Mathematics(EM)	April - June
46	Test – 1	General Aptitude(GA)	July - September
47	Test - 2	General Aptitude(GA)	July - September
48	Full Test	General Aptitude(GA)	July - September

Round 1 - Full Subject Tests

- Timeline: September to November 2026
- Coverage: full syllabus of the subject
- Duration: 2 hours
- Questions: 35 questions per test

Round 1 test plan:

Date	Day	Subject	Test ID
26 Sep 2026	Thursday	Engineering Mathematics (EM)	49
2 Oct 2026	Wednesday	General Aptitude (GA)	50
7 Oct 2026	Tuesday	Compiler Design (CD)	51
12 Oct 2026	Monday	Theory of Computation (TOC)	52
18 Oct 2026	Sunday	Database Management System (DBMS)	53
24 Oct 2026	Saturday	Digital Logic (DL)	54
29 Oct 2026	Friday	Computer Organization & Architecture (COA)	55
4 Nov 2026	Thursday	C – Programming (C – Prog)	56
10 Nov 2026	Wednesday	Discrete Mathematics (DM)	57
15 Nov 2026	Tuesday	Operating System (OS)	58
21 Nov 2026	Monday	Data Structures & Algorithms (DSA)	59
27 Nov 2026	Sunday	Computer Networks (CN)	60

Round 2 - Mock Tests (Full Syllabus)

- Timeline: December 2026 to February 2027
- Coverage: full GATE syllabus
- Questions: 65 questions per test (55 Technical/Math + 10 Aptitude)
- Total mocks: 16 including 4 All-India Mock Tests (AIMTs)

- Duration: 3 hours

Round 2 test plan (subject-wise)

Date	Day	Test	Test ID
03 Dec 2026	Thursday	Mock-1	61
07 Dec 2026	Monday	Mock-2	62
11 Dec 2026	Friday	Mock-3	63
15 Dec 2026	Tuesday	AIMT-1	64
19 Dec 2026	Saturday	Mock-4	65
23 Dec 2026	Wednesday	Mock-5	66
27 Dec 2026	Sunday	Mock-6	67
31 Dec 2026	Thursday	AIMT-2	68
04 Jan 2027	Monday	Mock-7	69
08 Jan 2027	Friday	Mock-8	70
12 Jan 2027	Tuesday	Mock-9	71
16 Jan 2027	Saturday	AIMT-3	72
20 Jan 2027	Wednesday	Mock-10	73
24 Jan 2027	Sunday	Mock-11	74
28 Jan 2027	Thursday	Mock-12	75
01 Feb 2027	Monday	AIMT-4	76

Test format summary

Round 0 topic tests: 50 minutes, 20 questions (2 marks each), 40 Marks

Round 0 full tests: 2 hours, 35 questions (1-2 marks each), 60 Marks

Round 1 full-subject tests: 2 hours, 35 questions(1-2 marks each), 60 Marks

Round 2 full-syllabus mocks: 3 hours, 65 questions, 100 Marks

Notes

1) Dates are tentative and may shift slightly to align with academic progress and completion timelines.

TOPIC TEST SYLLABUS (ROUND 0)

Discrete Mathematics (DM)

Test Number	Test ID	Topic
Test- 1	1	Set Theory
Test - 2	2	Relation & Function
Test - 3	3	Algebraic System (Group Theory)
Test - 4	4	Graph Theory
Test - 5	5	Proposition Logic and FOL
Test Full	6	Complete Syllabus

C-Programming (C-Prog)

Test Number	Test ID	Topic
Test - 1	7	Basic Programming (Operators And Expressions, Data Types And Input-Output Operators, Control Statements And Decision Making, Arrays, Strings and Functions)
Test Full	8	Complete Syllabus (Basic Programming, Pointers, Structures And Unions)

Data Structure and Algorithms (DSA)

Test Number	Test ID	Topic
Test - 1	9	Asymptotic notations and Complexity, Recurrence relation
Test - 2	10	Searching Techniques: LINEAR AND Binary Search Sorting Techniques: Bubble
Test - 3	11	Data Structures: Stack, Queue, Linked List, Priority Queue, Hash Table, Binary Tree, Binary Search Tree, AVL Tree
Test - 4	12	Graph Data Structure, BFS, DFS, Topological Ordering, Adjacency Matrix & List Greedy & Dynamic Approach: Knapsack Problem, Job Scheduling with Deadline, Huffman Encoding, Kruskal's and Prim's algorithm, MST, Dijkstra's & Bellman Ford

Test Number	Test ID	Topic
		Algorithm, LCS Problem, Matrix Chain Multiplication Problem, Optimal File Merge Pattern.
Test Full	13	Complete Syllabus

Computer Network (CN)

Test Number	Test ID	Topic
Test - 1	14	Layered Model: OSI And TCP/IP, Data Link Layer (Framing, Error Control And Flow Control)
Test - 2	15	Data Link Layer (MAC), Basics of Packet, Circuit And Virtual Circuit-Switching; Ethernet Bridging; Network Devices (Hub, Repeater, Switch/Bridge And Routers)
Test - 3	16	Routing Algorithms (Distance Vector, Link State), Ipv4 Addressing, Formatting, CIDR, NAT, ICMP.
Test - 4	17	TCP/UDP, Sockets, Congestion Control, Application Layer Protocols (DNS, SMTP, POP, FTP, HTTP And DHCP).
Test Full	18	Complete Syllabus

Operating System (OS)

Test Number	Test ID	Topic
Test - 1	19	Basics Of OS, Process Management, Thread Management, CPU - Scheduling.
Test - 2	20	Inter-Process Communication, Concurrency And Synchronization And Deadlock.
Test - 3	21	Memory Management, Virtual Memory, File Systems And Disk Scheduling
Test Full	22	Complete Syllabus

Digital Logic (DL)

Test Number	Test ID	Topic
Test - 1	23	Number System
Test - 2	24	Boolean Algebra, Minimization, K-Map And Combinational Circuits
Test - 3	25	Combinational Circuits and Sequential Circuits
Test Full	26	Complete Syllabus

Computer Organization and Architecture (COA)

Test Number	Test ID	Topic
Test - 1	27	Machine Instructions, Instruction Formats, Instruction Set Architecture, Addressing Modes. Pipelining Concepts: Pipeline Latency, Clock Cycle Time, Throughput, Pipeline Speedup, Pipeline Efficiency, Total Execution Time, Total Cycles in Pipelined and Non-Pipelined Execution.
Test - 2	28	Instruction Pipelining: Data Hazards, Control Hazards, Structural Hazards, Hazard Detection, Forwarding, Pipeline Stalling, Branch Prediction, Delayed Branching, Pipeline CPI, Pipeline Performance, Cache Memory: Basics (Tag, Index and Offset), Mapping (Direct-Mapped, Set-Associative, Fully Associative) Cache Replacement Policies, Cache hit and Miss calculations.
Test - 3	29	Cache Memory: Cache writes policies such as Write Through, Write Back, Write Allocate, and Write No Allocate. It also covers Average Memory Access Time, CPI with cache misses, VIVT, PIPT, VIPT, and PIVT cache organizations, array access problems based on cache, DRAM: Organization, memory-chip organization, address decoding and memory interleaving. I/O and Miscellaneous: Hard disk structure and access time, I/O interfacing, programmed I/O, interrupts, DMA, ALU, data path, control unit, hardwired control and microprogrammed control.
Test Full	30	Complete Syllabus

Database Management System (DBMS)

Test Number	Test ID	Topic
Test - 1	31	Relational Model, SQL - 1 (Create, Insert, Update, Select, Aggregate Functions, Group By, Order By,

Test Number	Test ID	Topic
		Nested Query, Self-Join, Constraints)
Test - 2	32	SQL – 2 (FULL) and Relational Algebra - 1
Test - 3	33	Relational Algebra - 2 And Normalization
Test - 4	34	Indexing, B-Tree, B+-Tree, Transaction and Concurrency Control
Test Full	35	Complete Syllabus (Including ER-Model)

Theory Of Computation (TOC)

Test Number	Test ID	Topic
Test - 1	36	Chomsky Classification Of Grammar, Regular Expression, Finite Automata, Regular Language, DFA, NFA, Minimization Of DFA, NFA To DFA Conversion, Properties Of Regular Language, Pumping Lemma For Regular Languages.
Test - 2	37	CFL, PDA, CFG, Properties Of CFL, Pumping Lemma For CFL, Turing Machine, Decidability and Undecidability, Countably Finite and Infinite Languages.
Test Full	38	Complete Syllabus

Compiler Design (CD)

Test Number	Test ID	Topic
Test - 1	39	Parameter Passing Techniques, Lexical Analysis, Syntax Analysis (LL, LR, SLR, CLR, LALR)
Test Full	40	Complete Syllabus (Parameter Passing Techniques, Lexical Analysis, Syntax Analysis (LL, LR, SLR, CLR, LALR, Syntax Directed Translation, Runtime Environments, Intermediate Code Generation And Code Optimization)

Mathematics (MATH)

Test Number	Test ID	Topic
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Test Number	Test ID	Topic
Test - 1	41	Matrices (Determinant, Inverse, System of linear equations, Eigenvalues and eigenvectors, Diagonalization, independent & dependent vectors, LU Decomposition)
Test - 2	42	Calculus: Limits, continuity and differentiability, Maxima and minima, Mean value theorem, Integration
Test - 3	43	Permutation & Combination (Combinatorics), Generating Function
Test - 4	44	Probability and Statistics: Random variables, Uniform, normal, exponential, Poisson and binomial distributions. Mean, median, mode and standard deviation. Conditional probability and Bayes theorem.
Test Full	45	Complete Syllabus

Aptitude

Test Number	Test ID	Topic
Test – 1	46	Quantitative Aptitude Data interpretation: data graphs (bar graphs, pie charts, and other graphs representing data), 2- and 3-dimensional plots, maps, and tables Numerical computation and estimation: ratios, percentages, powers, exponents and logarithms, permutations and combinations, and series Mensuration and geometry Elementary statistics and probability.
Test - 2	47	Verbal Aptitude Basic English grammar: tenses, articles, adjectives, prepositions, conjunctions, verb-noun agreement, and other parts of speech Basic vocabulary: words, idioms, and phrases in context. Reading and comprehension, Narrative sequencing. Analytical Aptitude Logic: deduction and induction, Analogy, Numerical relations and reasoning. Spatial Aptitude Transformation of shapes: translation, rotation, scaling, mirroring, assembling, and grouping

Test Number	Test ID	Topic
		paper folding, cutting, and patterns in 2 and 3 dimensions.
Test Full	48	Complete Syllabus