

Topicwise Tests

| Test No. | Test Syllabus | No. of Ques. | Marks | Time | Activation Date |
|----------|--|--------------|-------|--------|-----------------|
| 1 | Theory of Computation-1: Regular expressions and finite automata, Context-free grammars and push-down automata | 17 | 25 | 45 min | 01-04-2024 |
| 2 | Theory of Computation-2: Regular and context-free languages, Grammar, pumping lemma, Turing machines and undecidability. | 17 | 25 | 45 min | |
| 3 | Algorithms -1: Sorting, Asymptotic worst case time and space complexity. Algorithm design techniques: greedy and divide-and-conquer and Searching. | 17 | 25 | 45 min | |
| 4 | Algorithms-2: Hashing, Graph search, minimum spanning trees, shortest paths and dynamic programming. | 17 | 25 | 45 min | |
| 5 | Computer Organization and Architecture-1: Instruction pipelining, Machine instructions and addressing modes and control unit. | 17 | 25 | 45 min | |
| 6 | Computer Organization and Architecture-2: ALU, data-path, Memory hierarchy: cache, main memory, secondary storage and I/O interface (interrupt and DMA mode). | 17 | 25 | 45 min | |
| 7 | Databases-1: Er-model. Relational model: relational algebra normalization and indexing (e.g., B and B+ trees). | 17 | 25 | 45 min | 15-04-2024 |
| 8 | Databases-2: Tuple calculus, SQL, Integrity constraints, File organization, Transactions and concurrency control. | 17 | 25 | 45 min | |
| 9 | Engineering Mathematics-1: Matrices, system of linear equations, eigenvalues and eigenvectors, Random variables. Uniform, normal, exponential, poisson and binomial distributions. Mean, median, mode and standard deviation. | 17 | 25 | 45 min | |
| 10 | Engineering Mathematics-2: Limits, continuity and differentiability. Maxima and minima. Mean value theorem. Integration, determinants and LU decomposition, Conditional probability and Bayes theorem. | 17 | 25 | 45 min | |
| 11 | General Aptitude-1: Numerical Ability: Numerical computation, numerical estimation, numerical reasoning and data interpretation. | 17 | 25 | 45 min | |
| 12 | General Aptitude-2: Verbal Ability: English grammar, sentence completion, verbal analogies, word groups, instructions, critical reasoning and verbal deduction. | 17 | 25 | 45 min | |
| 13 | Operating System-1: Memory management, virtual memory and Deadlock and File systems. | 17 | 25 | 45 min | 01-05-2024 |
| 14 | Operating System-2: Processes, threads, inter-process communication, concurrency, synchronization and CPU scheduling. | 17 | 25 | 45 min | |
| 15 | Programming and Data Structures-1: Programming in C, Arrays, stacks and queues, Recursion. | 17 | 25 | 45 min | |
| 16 | Programming and Data Structures-2: Linked lists, trees, binary search trees, binary heaps and graphs | 17 | 25 | 45 min | |
| 17 | Computer Networks-1: Concept of layering, LAN technologies and Ethernet bridging along with MAC protocols, Flow and error control techniques, switching, application layer protocols (DNS, SMTP, POP, FTP, HTTP, Email). | 17 | 25 | 45 min | |
| 18 | Computer Networks-2: IPv4, routers and routing algorithms (distance vector, link state). TCP/UDP and sockets, congestion control, network layer protocol headers like ARP, DHCP, ICMP. | 17 | 25 | 45 min | |
| 19 | Digital Logic-1: Boolean algebra, Combinational and Minimization | 17 | 25 | 45 min | 15-05-2024 |
| 20 | Digital Logic-2: Sequential circuits, Number representations and computer arithmetic (fixed and floating point). | 17 | 25 | 45 min | |
| 21 | Discrete Mathematics-1: Propositional and first order logic. Sets, relations, functions and counting | 17 | 25 | 45 min | |
| 22 | Discrete Mathematics-2: Partial orders and lattices, groups, Graphs: connectivity, matching, coloring. Recurrence relations and generating functions. | 17 | 25 | 45 min | |
| 23 | Compiler Design-1: Lexical analysis, syntax-directed translation and Intermediate code generation. | 17 | 25 | 45 min | |
| 24 | Compiler Design-2: Parsing, Runtime environments, local optimization. Data flow analysis: constant propagation, liveness analysis, common sub-expression elimination | 17 | 25 | 45 min | |



GATE 2025 ONLINE TEST SERIES

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Detailed Schedule COMPUTER SCIENCE & IT

Single Subject Tests

| Test No. | Test Syllabus | No. of Ques. | Marks | Duration | Activation Date |
|----------|--|--------------|-------|----------|-----------------|
| 25 | Theory of Computation | 33 | 50 | 90 min | 15-6-2024 |
| 26 | Algorithms | 33 | 50 | 90 min | |
| 27 | Computer Organization and Architecture | 33 | 50 | 90 min | |
| 28 | Operating System | 33 | 50 | 90 min | |
| 29 | Engineering Mathematics | 33 | 50 | 90 min | |
| 30 | General Aptitude | 33 | 50 | 90 min | |
| 31 | Database | 33 | 50 | 90 min | 15-07-2024 |
| 32 | Programming and Data Structures | 33 | 50 | 90 min | |
| 33 | Computer Networks | 33 | 50 | 90 min | |
| 34 | Digital Logic | 33 | 50 | 90 min | |
| 35 | Compiler Design | 33 | 50 | 90 min | |
| 36 | Discrete Mathematics | 33 | 50 | 90 min | |

Full Syllabus Tests

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|----|--------------------------------------|----|-----|---------|------------|
| 37 | Full Syllabus Test-1 (Basic Level) | 65 | 100 | 180 min | 15-08-2024 |
| 38 | Full Syllabus Test-2 (Basic Level) | 65 | 100 | 180 min | |
| 39 | Full Syllabus Test-3 (Basic Level) | 65 | 100 | 180 min | |
| 40 | Full Syllabus Test-4 (Basic Level) | 65 | 100 | 180 min | |
| 41 | Full Syllabus Test-5 (Advance Level) | 65 | 100 | 180 min | 15-09-2024 |
| 42 | Full Syllabus Test-6 (Advance Level) | 65 | 100 | 180 min | |
| 43 | Full Syllabus Test-7 (Advance Level) | 65 | 100 | 180 min | |
| 44 | Full Syllabus Test-8 (Advance Level) | 65 | 100 | 180 min | |

Candidate has to upload GATE-2025 Admit Card to access below mentioned tests

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|----|------------------|----|-----|---------|---|
| 45 | GATE Mock Test 1 | 65 | 100 | 180 min | After the Release of GATE 2025 Admit Card |
| 46 | GATE Mock Test 2 | 65 | 100 | 180 min | |
| 47 | GATE Mock Test 3 | 65 | 100 | 180 min | |
| 48 | GATE Mock Test 4 | 65 | 100 | 180 min | |