



GATE 2023 ONLINE TEST SERIES

CS
**COMPUTER
SCIENCE & IT**

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	15-03-2022
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	1-04-2022
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	15-04-2022
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	1-05-2022
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	



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Single Subject Tests

Test No.	Test Syllabus	No. of Ques.	Marks	Duration	Activation Date
25	Theory of Computation	33	50	90 min	01-06-2022
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	01-07-2022
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	

Multiple Subject Tests

37	Theory of Computation + Compiler Design	33	50	90 min	01-08-2022
38	Algorithms + Programming and Data Structures	33	50	90 min	
39	Computer Organization and Architecture + Operating System	33	50	90 min	
40	Digital Logic + Discrete Mathematics	33	50	90 min	
41	Computer Networks + Databases	33	50	90 min	
42	Engineering Mathematics + General Aptitude	33	50	90 min	

Full Syllabus Tests

43	Full Syllabus Test-1 (Basic Level)	65	100	180 min	01-09-2022
44	Full Syllabus Test-2 (Basic Level)	65	100	180 min	
45	Full Syllabus Test-3 (Basic Level)	65	100	180 min	
46	Full Syllabus Test-4 (Basic Level)	65	100	180 min	
47	Full Syllabus Test-5 (Advance Level)	65	100	180 min	01-10-2022
48	Full Syllabus Test-6 (Advance Level)	65	100	180 min	
49	Full Syllabus Test-7 (Advance Level)	65	100	180 min	
50	Full Syllabus Test-8 (Advance Level)	65	100	180 min	

Candidate has to upload GATE-2022 Admit Card to access below mentioned tests

51	GATE Mock Test 1	65	100	180 min	15-10-2022
52	GATE Mock Test 2	65	100	180 min	
53	GATE Mock Test 3	65	100	180 min	
54	GATE Mock Test 4	65	100	180 min	