

GATE CS 2023 Test Series Schedule

Test	Description	Date	Questions	Time	Marks
P & DS Topic Test – 1	Arrays - 1D, 2D, multidimensional, row and column major orders, C programming: Functions, recursion, scope of variables	Friday, April 01, 2022	15	45min	25
P & DS Topic Test – 2	Stacks, Queues, prefix-postfix conversion, towers of hanoi, postfix evaluation	Sunday, April 03, 2022	15	45min	25
P & DS Topic Test – 3	Pointers, function pointers, Structures, Unions, Linked list	Tuesday, April 05, 2022	15	45min	25
P & DS Topic Test – 4	Trees, Binary search trees, Binary Heaps, Graphs	Thursday, April 07, 2022	15	45min	25
P & DS Subject Test	Programming and Data Structures Complete Syllabus	Saturday, April 09, 2022	33	90min	50
Algorithms Topic Test – 1	Asymptotic worst case time and space complexity	Monday, April 11, 2022	15	45min	25
Algorithms Topic Test – 2	Searching, Hashing, Sorting, Divide & Conquer,	Wednesday, April 13, 2022	15	45min	25
Algorithms Topic Test – 3	Greedy Algorithms and Minimum spanning trees	Friday, April 15, 2022	15	45min	25
Algorithms Topic Test – 4	Dynamic programming, Graph Traversals, Shortest paths	Sunday, April 17, 2022	15	45min	25
Algorithms Subject Test	Algorithms Complete Syllabus	Tuesday, April 19, 2022	33	90min	50
TOC Topic Test – 1	DFA, NFA, conversion of NFA to DFA, Moore and Mealey machines	Thursday, April 21, 2022	15	45min	25
TOC Topic Test – 2	Regular Expressions and Conversions, Finding whether a given grammar is Regular, Pumping Lemma	Saturday, April 23, 2022	15	45min	25
TOC Topic Test – 3	Grammars and Chomsky hierarchy, CNF and GNF, Context free languages and push down automata, pumping lemma for CFLs, Turing machines, context sensitive languages,	Monday, April 25, 2022	15	45min	25
TOC Topic Test – 4	Recursive and recursively enumerable languages, Closure properties of all languages, Undecidability	Wednesday, April 27, 2022	15	45min	25
TOC Subject Test	Theory of Computation Complete Syllabus	Friday, April 29, 2022	33	90min	50
CD Topic Test – 1	Stages in compilers, ambiguity, Lexical Analysis, Parsing - I (Recursive Descent, operator precedence, LL (1))	Sunday, May 01, 2022	15	45min	25
CD Topic Test – 2	Parsing - II (LR(0), SLR, CLR, LALR), Syntax Directed Translation, Intermediate Code Generation	Tuesday, May 03, 2022	15	45min	25
CD Topic Test – 3	Run Time Environment, Local optimisation, Data flow analyses: constant propagation, liveness analysis, common subexpression elimination.	Thursday, May 05, 2022	15	45min	25
CD Subject Test	Compiler Design Complete Syllabus	Saturday, May 07, 2022	33	90min	50
DB Topic Test – 1	ER Model and Relational Database Model, Conversion of ER Model to Relational data base model, Normalisation I (Intro to FD's , Determining candidate keys, Equivalence of FD's, FD preserving, lossless decomposition, 1NF, 2NF, 3NF, BCNF)	Monday, May 09, 2022	15	45min	25
DB Topic Test – 2	Relational Algebra I (Selection, Projection, Renaming, Joins, Division, set operations, Cartesian product, Tuple Relational Calculus, Domain Relational Calculus)	Wednesday, May 11, 2022	15	45min	25
DB Topic Test – 3	SQL	Friday, May 13, 2022	15	45min	25
DB Topic Test – 4	Transactions, Serializability, Locking - 2PL, Timestamp protocol, Thomas write rule, Graph based protocol. File Structures - Indexing, B and B+ trees - insertion, deletion.	Sunday, May 15, 2022	15	45min	25
DB Subject Test	Databases Complete Syllabus	Tuesday, May 17, 2022	33	90min	50
OS Topic Test – 1	System calls, Processes - States, PCB, Schedulers, Threads and System calls, CPU scheduling - FCFS, SJFS, priority scheduling, Round robin, multi level queue scheduling, multilevel feedback queue scheduling	Thursday, May 19, 2022	15	45min	25
OS Topic Test – 2	Process synchronization - race conditions, critical sections, peterson's solution, Test and set locks, Semaphores, Dead locks, Starvation, Priority Inversion	Saturday, May 21, 2022	15	45min	25
OS Topic Test – 3	Memory Management - address binding, logical vs physical addressing, Dynamic loading and linking, swapping, memory allocation, fragmentation, segmentation and paging	Monday, May 23, 2022	15	45min	25
OS Topic Test – 4	Virtual memory - Demand paging, page replacement algorithms, Thrashing and File Systems	Wednesday, May 25, 2022	15	45min	25
OS Subject Test	Operating Systems Complete Syllabus	Friday, May 27, 2022	33	90min	50
CN Topic Test – 1	Classification of addresses, Subnetting, Supernetting	Sunday, May 29, 2022	15	45min	25

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Test	Description	Date	Questions	Time	Marks
CN Topic Test – 2	ISO/OSI stack, applications of each layer, bridges, routers, gateways, Flow Control Methods - Stop wait, Go back N, SR; Access control - TDM, Polling; CSMA/CD, Exponential Back off algorithm, Transmission, propagation delays etc, CRC, Aloha technologies, Framing, bit stuffing, ethernet	Tuesday, May 31, 2022	15	45min	25
CN Topic Test – 3	TCP, UDP, Sockets, error control algorithms, Congestion control algorithms, Switching networks, Basics of IP support protocols (ARP, DHCP, ICMP), fragmentation and reassembly	Thursday, June 02, 2022	15	45min	25
CN Topic Test – 4	Routing Algorithms, Application layer protocols - DNS, SMTP, HTTP, FTP, Email and Network Address Translation (NAT)	Saturday, June 04, 2022	15	45min	25
CN Subject Test	Computer Networks Complete Syllabus	Monday, June 06, 2022	33	90min	50
EM Topic Test – 1	Propositional and first order logic; Sets, Relations, Functions, Partial Order, Lattices and Groups	Wednesday, June 08, 2022	15	45min	25
EM Topic Test – 2	Graphs: Connectivity, Matching, Coloring, Combinatorics: Counting, Recurrence Relations, Generating Functions	Friday, June 10, 2022	15	45min	25
EM Topic Test – 3	Linear Algebra: Matrices, Determinants, System of Linear Equations, Eigen values and Eigen vectors, LU Decomposition	Sunday, June 12, 2022	15	45min	25
EM Topic Test – 4	Calculus: Limits, Continuity and Differentiability, Maxima and Minima, Mean Value Theorem, Integration	Tuesday, June 14, 2022	15	45min	25
EM Topic Test – 5	Probability: Random Variables, Uniform, Normal, Exponential, Poisson and Binomial Distributions, Conditional probability, Bayes theorem. Mean, Median, Mode and Standard Deviation.	Thursday, June 16, 2022	15	45min	25
EM Subject Test	Engineering Mathematics Complete Syllabus	Saturday, June 18, 2022	33	90min	50
DLD Topic Test – 1	Logic functions, Minimization	Monday, June 20, 2022	15	45min	25
DLD Topic Test – 2	Design and Synthesis of Combinational circuits	Wednesday, June 22, 2022	15	45min	25
DLD Topic Test – 3	Sequential Circuits, Number representations and computer arithmetic (fixed and floating point).	Friday, June 24, 2022	15	45min	25
DLD Subject Test	Digital Logic Complete Syllabus	Sunday, June 26, 2022	33	90min	50
CO Topic Test – 1	Memory Interfacing, Hierarchy, Cache block replacement policies, Cache Mapping techniques - Direct mapping, associative, and set associative mapping	Tuesday, June 28, 2022	15	45min	25
CO Topic Test – 2	Machine Instructions and Addressing Modes, ALU, data path, control unit - Instruction cycle, interrupt driven IO, Hardwired control Unit, Pipelining	Thursday, June 30, 2022	15	45min	25
CO Topic Test – 3	Secondary Memory, IO Interface, Micro programmed Control Unit	Saturday, July 02, 2022	15	45min	25
CO Subject Test	Computer Organization Complete Syllabus	Monday, July 04, 2022	33	90min	50
	<p>Aptitude Test – 1:</p> <p>Verbal Aptitude: Basic English grammar: tenses, articles, adjectives, prepositions, conjunctions, verb-noun agreement, and other parts of speech</p> <p>Basic vocabulary: words, idioms, and phrases in context</p> <p>Reading and comprehension</p> <p>Narrative sequencing</p> <p>Simple Interest, Compound Interest, Alligation and Mixture, Partnership, Time and Work)</p>	Wednesday, July 06, 2022	15	45min	25

GATE CS 2023 Test Series Schedule

Test	Description	Date	Questions	Time	Marks
Aptitude	Aptitude Test – 2: 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	Friday, July 08, 2022	15	45min	25
	Aptitude Test – 3: Analytical Aptitude Logic: deduction and induction Analogy Numerical relations and reasoning	Sunday, July 10, 2022	15	45min	25
	Aptitude Test – 4 Spatial Aptitude Transformation of shapes: translation, rotation, scaling, mirroring, assembling, and grouping Paper folding, cutting, and patterns in 2 and 3 dimensions	Tuesday, July 12, 2022	15	45min	25
	Aptitude Test Spatial – 5: Verbal Aptitude and Quantitative Aptitude	Thursday, July 14, 2022	15	45min	25
	Aptitude Test Spatial– 6: Analytical Aptitude and Spatial Aptitude	Saturday, July 16, 2022	15	45min	25
	Aptitude Test Complete Syllabus	Monday, July 18, 2022	33	90min	50
Multi Subject Tests					
Multi Subject Test – 1	Theory of Computation, Compiler Design	Sunday, July 31, 2022	33	90min	50
Multi Subject Test – 2	Operating Systems, Databases	Sunday, August 07, 2022	33	90min	50
Multi Subject Test – 3	Programming and Data Structures, Algorithms	Sunday, August 14, 2022	33	90min	50
Multi Subject Test – 4	Digital Logic, Computer Organization	Sunday, August 21, 2022	33	90min	50
Multi Subject Test – 5	Computer Networks, Engineering Mathematics	Sunday, August 28, 2022	33	90min	50
Multi Subject Test – 6	Theory of Computation, Compiler Design, Operating Systems, Digital Logic	Sunday, September 04, 2022	33	90min	50
Multi Subject Test – 7	Databases, Programming and Data Structures, Algorithms	Sunday, September 11, 2022	33	90min	50
Multi Subject Test – 8	Engineering Mathematics, Computer Networks, Computer Organization	Sunday, September 18, 2022	33	90min	50
Multi Subject Test – 9	Theory of Computation, Compiler Design, Algorithms, Programming & Data Structures, Engineering Mathematics, Operating Systems	Sunday, September 25, 2022	33	90min	50
Multi Subject Test – 10	Databases, Computer Networks, Digital Logic, Computer Organization and Architecture, General Aptitude	Sunday, October 02, 2022	33	90min	50
Grand Tests					
Grand Tests	Grand Test – 1	Sunday, October 16, 2022	65	180min	100
	Grand Test – 2	Sunday, October 23, 2022	65	180min	100
	Grand Test – 3	Sunday, October 30, 2022	65	180min	100
	Grand Test – 4	Sunday, November 06, 2022	65	180min	100
	Grand Test – 5	Sunday, November 13, 2022	65	180min	100
	Grand Test – 6	Sunday, November 20, 2022	65	180min	100
	Grand Test – 7	Sunday, November 27, 2022	65	180min	100
	Grand Test – 8	Sunday, December 04, 2022	65	180min	100
	Grand Test – 9	Sunday, December 11, 2022	65	180min	100
	Grand Test – 10	Sunday, December 18, 2022	65	180min	100
Mock Tests					
Mock Tests	Mock GATE Test – 1	Sunday, December 25, 2022	65	180min	100
	Mock GATE Test – 2	Sunday, January 01, 2023	65	180min	100
	Mock GATE Test – 3	Sunday, January 08, 2023	65	180min	100
	Mock GATE Test – 4	Sunday, January 15, 2023	65	180min	100

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Test	Description	Date	Questions	Time	Marks
	Mock GATE Test – 5	Sunday, January 22, 2023	65	180min	100

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