

### GATE CS 2022 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	Saturday, May 01, 2021	15	45min	25
P & DS Topic Test – 2	Stacks, Queues, prefix-postfix conversion, towers of hanoi, postfix evaluation	Monday, May 03, 2021	15	45min	25
P & DS Topic Test – 3	Pointers, function pointers, Structures, Unions, Linked list	Wednesday, May 05, 2021	15	45min	25
P & DS Topic Test – 4	Trees, Binary search trees, Binary Heaps, Graphs	Friday, May 07, 2021	15	45min	25
P & DS Subject Test	Programming and Data Structures Complete Syllabus	Sunday, May 09, 2021	33	90min	50
Algorithms Topic Test – 1	Asymptotic worst case time and space complexity	Tuesday, May 11, 2021	15	45min	25
Algorithms Topic Test – 2	Searching, Hashing, Sorting, Divide & Conquer,	Thursday, May 13, 2021	15	45min	25
Algorithms Topic Test – 3	Greedy Algorithms and Minimum spanning trees	Saturday, May 15, 2021	15	45min	25
Algorithms Topic Test – 4	Dynamic programming, Graph Traversals, Shortest paths	Monday, May 17, 2021	15	45min	25
Algorithms Subject Test	Algorithms Complete Syllabus	Wednesday, May 19, 2021	33	90min	50
TOC Topic Test – 1	DFA, NFA, conversion of NFA to DFA, Moore and Mealey machines	Friday, May 21, 2021	15	45min	25
TOC Topic Test – 2	Regular Expressions and Conversions, Finding whether a given grammar is Regular, Pumping Lemma	Sunday, May 23, 2021	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,	Tuesday, May 25, 2021	15	45min	25
TOC Topic Test – 4	Recursive and recursively enumerable languages, Closure properties of all languages, Undecidability	Thursday, May 27, 2021	15	45min	25
TOC Subject Test	Theory of Computation Complete Syllabus	Saturday, May 29, 2021	33	90min	50
CD Topic Test – 1	Stages in compilers, ambiguity, Lexical Analysis, Parsing - I (Recursive Descent, operator precedence, LL (1))	Monday, May 31, 2021	15	45min	25
CD Topic Test – 2	Parsing - II (LR(0), SLR, CLR, LALR), Syntax Directed Translation, Intermediate Code Generation	Wednesday, June 02, 2021	15	45min	25
CD Topic Test – 3	Run Time Environment, Local optimisation, Data flow analyses: constant propagation, liveness analysis, common subexpression elimination.	Friday, June 04, 2021	15	45min	25
CD Subject Test	Compiler Design Complete Syllabus	Sunday, June 06, 2021	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)	Tuesday, June 08, 2021	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)	Thursday, June 10, 2021	15	45min	25
DB Topic Test – 3	SQL	Saturday, June 12, 2021	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.	Monday, June 14, 2021	15	45min	25
DB Subject Test	Databases Complete Syllabus	Wednesday, June 16, 2021	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	Friday, June 18, 2021	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	Sunday, June 20, 2021	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	Tuesday, June 22, 2021	15	45min	25
OS Topic Test – 4	Virtual memory - Demand paging, page replacement algorithms, Thrashing and File Systems	Thursday, June 24, 2021	15	45min	25
OS Subject Test	Operating Systems Complete Syllabus	Saturday, June 26, 2021	33	90min	50
CN Topic Test – 1	Classification of addresses, Subnetting, Supernetting	Monday, June 28, 2021	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	Wednesday, June 30, 2021	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	Friday, July 02, 2021	15	45min	25
CN Topic Test – 4	Routing Algorithms, Application layer protocols - DNS, SMTP, HTTP, FTP, Email and Network Address Translation (NAT)	Sunday, July 04, 2021	15	45min	25
<b>CN Subject Test</b>	<b>Computer Networks Complete Syllabus</b>	<b>Tuesday, July 06, 2021</b>	<b>33</b>	<b>90min</b>	<b>50</b>
EM Topic Test – 1	Propositional and first order logic; Sets, Relations, Functions, Partial Order, Lattices and Groups	Thursday, July 08, 2021	15	45min	25
EM Topic Test – 2	Graphs: Connectivity, Matching, Coloring, Combinatorics: Counting, Recurrence Relations, Generating Functions	Saturday, July 10, 2021	15	45min	25
EM Topic Test – 3	Linear Algebra: Matrices, Determinants, System of Linear Equations, Eigen values and Eigen vectors, LU Decomposition	Monday, July 12, 2021	15	45min	25
EM Topic Test – 4	Calculus: Limits, Continuity and Differentiability, Maxima and Minima, Mean Value Theorem, Integration	Wednesday, July 14, 2021	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.	Friday, July 16, 2021	15	45min	25
<b>EM Subject Test</b>	<b>Engineering Mathematics Complete Syllabus</b>	<b>Sunday, July 18, 2021</b>	<b>33</b>	<b>90min</b>	<b>50</b>
DLD Topic Test – 1	Logic functions, Minimization	Tuesday, July 20, 2021	15	45min	25
DLD Topic Test – 2	Design and Synthesis of Combinational circuits	Thursday, July 22, 2021	15	45min	25
DLD Topic Test – 3	Sequential Circuits, Number representations and computer arithmetic (fixed and floating point).	Saturday, July 24, 2021	15	45min	25
<b>DLD Subject Test</b>	<b>Digital Logic Complete Syllabus</b>	<b>Monday, July 26, 2021</b>	<b>33</b>	<b>90min</b>	<b>50</b>
CO Topic Test – 1	Memory Interfacing, Hierarchy, Cache block replacement policies, Cache Mapping techniques - Direct mapping, associative, and set associative mapping	Wednesday, July 28, 2021	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	Friday, July 30, 2021	15	45min	25
CO Topic Test – 3	Secondary Memory, IO Interface, Micro programmed Control Unit	Sunday, August 01, 2021	15	45min	25
<b>CO Subject Test</b>	<b>Computer Organization Complete Syllabus</b>	<b>Tuesday, August 03, 2021</b>	<b>33</b>	<b>90min</b>	<b>50</b>
	<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>	Thursday, August 05, 2021	15	45min	25

### GATE CS 2022 Test Series Schedule

Test	Description	Date	Questions	Time	Marks
Aptitude	<b>Aptitude Test – 2:</b>  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	Saturday, August 07, 2021	15	45min	25
	<b>Aptitude Test – 3:</b>  Analytical Aptitude Logic: deduction and induction Analogy Numerical relations and reasoning	Monday, August 09, 2021	15	45min	25
	<b>Aptitude Test – 4</b>  Spatial Aptitude Transformation of shapes: translation, rotation, scaling, mirroring, assembling, and grouping Paper folding, cutting, and patterns in 2 and 3 dimensions	Wednesday, August 11, 2021	15	45min	25
	<b>Aptitude Test Spatial – 5:</b>  Verbal Aptitude and Quantitative Aptitude	Friday, August 13, 2021	15	45min	25
	<b>Aptitude Test Spatial– 6:</b>  Analytical Aptitude and Spatial Aptitude	Sunday, August 15, 2021	15	45min	25
	<b>Aptitude Test Complete Syllabus</b>	Tuesday, August 17, 2021	33	90min	50
<b>Multi Subject Tests</b>					
Multi Subject Test – 1	Theory of Computation, Compiler Design	Friday, August 20, 2021	33	90min	50
Multi Subject Test – 2	Operating Systems, Databases	Monday, August 23, 2021	33	90min	50
Multi Subject Test – 3	Programming and Data Structures, Algorithms	Thursday, August 26, 2021	33	90min	50
Multi Subject Test – 4	Digital Logic, Computer Organization	Sunday, August 29, 2021	33	90min	50
Multi Subject Test – 5	Computer Networks, Engineering Mathematics	Wednesday, September 01, 2021	33	90min	50
Multi Subject Test – 6	Theory of Computation, Compiler Design, Operating Systems, Digital Logic	Friday, October 01, 2021	33	90min	50
Multi Subject Test – 7	Databases, Programming and Data Structures, Algorithms	Monday, October 04, 2021	33	90min	50
Multi Subject Test – 8	Engineering Mathematics, Computer Networks, Computer Organization	Thursday, October 07, 2021	33	90min	50
Multi Subject Test – 9	Theory of Computation, Compiler Design, Algorithms, Programming & Data Structures, Engineering Mathematics, Operating Systems	Sunday, October 10, 2021	33	90min	50
Multi Subject Test – 10	Databases, Computer Networks, Digital Logic, Computer Organization and Architecture, General Aptitude	Thursday, October 14, 2021	33	90min	50
<b>Grand Tests</b>					
Grand Tests	Grand Test – 1	Sunday, October 17, 2021	65	180min	100
	Grand Test – 2	Sunday, October 24, 2021	65	180min	100
	Grand Test – 3	Sunday, October 31, 2021	65	180min	100
	Grand Test – 4	Sunday, November 07, 2021	65	180min	100
	Grand Test – 5	Sunday, November 14, 2021	65	180min	100
	Grand Test – 6	Sunday, November 21, 2021	65	180min	100
	Grand Test – 7	Sunday, November 28, 2021	65	180min	100
	Grand Test – 8	Sunday, December 05, 2021	65	180min	100
	Grand Test – 9	Sunday, December 12, 2021	65	180min	100
	Grand Test – 10	Sunday, December 19, 2021	65	180min	100
<b>Mock Tests</b>					
Mock Tests	Mock GATE Test – 1	Sunday, December 26, 2021	65	180min	100
	Mock GATE Test – 2	Sunday, January 02, 2022	65	180min	100
	Mock GATE Test – 3	Sunday, January 09, 2022	65	180min	100
	Mock GATE Test – 4	Sunday, January 16, 2022	65	180min	100

### GATE CS 2022 Test Series Schedule

Test	Description	Date	Questions	Time	Marks
	Mock GATE Test – 5	Monday, January 24, 2022	65	180min	100

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