



ACE[®]
Engineering Academy
Leading Institute for ESE/GATE/PSUs



GATE-2024

Online Test Series

Computer Science and Information Technology - Schedule

No.of Tests : 54 + 54 <i>free</i> practice tests of GATE-2023 Online Test Series		
	GATE - 2024 Test Series	Practice Tests GATE - 2023 OTS
Topic wise Tests	23	23
Grand Tests (Subject Wise Tests + Multi-Subject Wise Tests)	19	19
Full Length Mock Tests	12	12
Total Tests - 108		

Note:

- ★ The Syllabus considered as per Previous year Notification of GATE. ACE Engineering Academy does not take any responsibility for deviations in syllabus in the final exam.
- ★ The Dates of Tests may Change according to the GATE-2024 Exam schedule.
- ★ Tests will be activated at 06:00 pm on the scheduled day.
- ★ All tests will be active till GATE-2024 Exam.

Topic wise Tests

(No. of Questions: 15, Time duration: 42 Minutes and Marks: 25 M)

Test No	Name of the Test	Date of Activation
Test-01	Engineering Mathematics-1: Linear Algebra: Matrices, determinants, system of linear equations, eigenvalues and eigenvectors, LU decomposition. Calculus: Limits, continuity and differentiability. Maxima and minima. Mean value theorem. Integration. Probability and Statistics: Random variables. Uniform, normal, exponential, poisson and binomial distributions. Mean, median, mode and standard deviation. Conditional probability and Bayes theorem.	17-04-2023
Test-02	Engineering Mathematics-2: Discrete Mathematics: Propositional and first order logic. Sets, relations, functions, partial orders and lattices. Monoids, Groups	
Test-03	Engineering Mathematics-3: Discrete Mathematics: Graphs: connectivity, matching, coloring. Combinatorics: counting, recurrence relations, generating functions.	
Test-04	Digital Logic-1: Number Systems, Boolean Expression, Boolean Laws & K-maps	25-04-2023
Test-05	Digital Logic-2: Combinational Circuits, Multiplex & De-Multiplex, Sequential Circuits & Counters	
Test-06	Computer Organization and Architecture-1: Computer Arithmetic, Memory Organization (Cache, Main & Secondary Storage).	02-05-2023
Test-07	Computer Organization and Architecture-2: Instruction Pipelining, Pipeline Hazards, Control Unit Design(H/W & Micro Programmed Control, ALU & Data Path), Machine Instructions & Addressing Modes, I/O Interface (Interrupt and DMA mode), Serial Communication Interface.	
Test-08	Computer Networks-1: Concept of layering: OSI and TCP/IP Protocol Stacks; Basics of packet, circuit and virtual circuit-switching; Data link layer: framing, error detection, Medium Access Control, Ethernet bridging	09-05-2023
Test-09	Computer Networks-2: Routing protocols: shortest path, flooding, distance vector and link state routing; Fragmentation and IP addressing, IPv4, CIDR notation, Basics of IP support protocols (ARP, DHCP, ICMP), Network Address Translation (NAT); Transport layer: flow control and congestion control, UDP, TCP, sockets; Application layer protocols: DNS, SMTP, HTTP, FTP, Email.	

Test No	Name of the Test	Date of Activation
Test-10	Theory of Computation-1: Finite automata(DFA,NFA), Regular languages, Regular expression,closure properties of regular sets, pumping lemma. FA WITH OUTPUT, PDA,DPDA. Cfg, Normalisation of Cfg,Dcfl, CFL, closure properties.	16-05-2023
Test-11	Theory of Computation-2: Turning machine, Recursive languages , REL, closure properties of REL, LBA,Csl,closure properties Of csl, Decidable and undecidable/computability, Complexity.	
Test-12	Operating System-1: Introduction,Process Management,System Calls, Synchronization and Concurrency Control, CPU Scheduling, Deadlocks	23-05-2023
Test-13	Operating System-2: Memory Management, I/O scheduling, File Systems,	
Test-14	Algorithms-1: Algorithm Analysis & Asymptotic Notations,Divide and Conquer, Greedy Method	30-05-2023
Test-15	Algorithms-2: Dynamic Programming,Graph Techniques.	
Test-16	Database-1: ER Diagrams, FD, Normalization, RA & RC	
Test-17	Database-2: SQL, Transaction concurrency, Indexing (e.g., B and B+ trees), Recovery System.	
Test-18	Compiler Design: Lexical Analysis & Parsing ,Semantic Analysis(SDT), Intermediate code generation, Basics of Optimization	06-06-2023
Test-19	Programming and Data Structures-1: Programming in C,Recursion;Arrays, Stacks , Queues, Linked Lists, Trees, Graphs & Hashing	
Test-20	Programming and Data Structures-2: Programming in C; Recursion,Arrays, Stacks , Queues, Linked Lists, Trees, Graphs & Hashing	
Test-21	Verbal Ability: 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.	13-06-2023
Test-22	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-23	Analytical Aptitude: Logic: deduction and induction, Analogy, Numerical relations and reasoning Spatial Aptitude: Transformation of shapes: translation, rotation, scaling, mirroring, assembling, and grouping Paper folding, cutting, and patterns in 2 and 3 dimensions	

Test No	Name of the Test	Date of Activation
Subject Wise Grand Tests <i>(No. of Questions: 30, Time duration: 83 Minutes and Marks: 50 M)</i>		
Test-24	Engineering Mathematics	27-06-2023
Test-25	Digital Logic	
Test-26	Computer Organization and Architecture	04-07-2023
Test-27	Computer Networks	
Test-28	Theory of Computation	11-07-2023
Test-29	Operating System	
Test-30	Algorithms	18-07-2023
Test-31	Databases	
Test-32	Compiler Design	25-07-2023
Test-33	Programming and Data Structures	
Test-34	General Aptitude	01-08-2023

Full Length Mock Test - 1st Series <i>(No. of Questions: 65, Time duration: 180 Minutes and Marks: 100 M)</i>		
Test-35	Full Length Mock Test-1	15-08-2023
Test-36	Full Length Mock Test-2	22-08-2023
Test-37	Full Length Mock Test-3	29-08-2023
Test-38	Full Length Mock Test-4	12-09-2023
Test-39	Full Length Mock Test-5	19-09-2023
Test-40	Full Length Mock Test-6	26-09-2023

Multi-Subject Wise Grand Tests <i>(No. of Questions: 30, Time duration: 83 Minutes and Marks: 50 M)</i>		
Test-41	Programming and Data Structures	03-10-2023
Test-42	Computer Organization and Architecture and Digital Logic	
Test-43	Theory of Computation and Compiler Design	10-10-2023
Test-44	Computer Networks and Databases	
Test-45	Operating System and Algorithms	17-10-2023
Test-46	Engineering Mathematics and General Aptitude	
Test-47	Programming Languages & Data Structures, Computer Organization, Digital Logic & Computer Networks and Network Security	20-10-2023
Test-48	Theory of Computation, Compiler Design, Operating Systems, Algorithms & Database	

Test No	Name of the Test	Date of Activation
Full Length Mock Test - 2nd Series <i>(No.of Questions: 65, Time duration: 180 Minutes and Marks: 100 M)</i>		
Test-49	Full Length Mock Test-7	31-10-2023
Test-50	Full Length Mock Test-8	07-11-2023
Test-51	Full Length Mock Test-9	28-11-2023
Test-52	Full Length Mock Test-10	05-12-2023
Test-53	Full Length Mock Test-11	02-01-2024
Test-54	Full Length Mock Test-12	09-01-2024

Free Practice Tests of GATE-2023 Online Test Series

Topic wise Tests

(No. of Questions: 15, Time duration: 42 Minutes and Marks: 25 M)

Test No	Name of the Test	Date of Activation
Test-01	Engineering Mathematics-1: Linear Algebra: Matrices, determinants, system of linear equations, eigenvalues and eigenvectors, LU decomposition. Calculus: Limits, continuity and differentiability. Maxima and minima. Mean value theorem. Integration. Probability and Statistics: Random variables. Uniform, normal, exponential, poisson and binomial distributions. Mean, median, mode and standard deviation. Conditional probability and Bayes theorem.	20-03-2023
Test-02	Engineering Mathematics-2: Discrete Mathematics: Propositional and first order logic. Sets, relations, functions, partial orders and lattices. Monoids, Groups	
Test-03	Engineering Mathematics-3: Discrete Mathematics: Graphs: connectivity, matching, coloring. Combinatorics: counting, recurrence relations, generating functions.	
Test-04	Digital Logic-1: Number Systems, Boolean Expression, Boolean Laws & K-maps	
Test-05	Digital Logic-2: Combinational Circuits, Multiplex & De-Multiplex, Sequential Circuits & Counters	
Test-06	Computer Organization and Architecture-1: Computer Arithmetic, Memory Organization (Cache, Main & Secondary Storage).	
Test-07	Computer Organization and Architecture-2: Instruction Pipelining, Pipeline Hazards, Control Unit Design(H/W & Micro Programmed Control, ALU & Data Path), Machine Instructions & Addressing Modes, I/O Interface (Interrupt and DMA mode), Serial Communication Interface.	
Test-08	Computer Networks-1: Concept of layering: OSI and TCP/IP Protocol Stacks; Basics of packet, circuit and virtual circuit-switching; Data link layer: framing, error detection, Medium Access Control, Ethernet bridging	
Test-09	Computer Networks-2: Routing protocols: shortest path, flooding, distance vector and link state routing; Fragmentation and IP addressing, IPv4, CIDR notation, Basics of IP support protocols (ARP, DHCP, ICMP), Network Address Translation (NAT); Transport layer: flow control and congestion control, UDP, TCP, sockets; Application layer protocols: DNS, SMTP, HTTP, FTP, Email.	

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Test-11	Theory of Computation-2: Turning machine, Recursive languages , REL, closure properties of REL, LBA,Csl,closure properties Of csl, Decidable and undecidable/computability, Complexity.	
Test-12	Operating System-1: Introduction,Process Management,System Calls, Synchronization and Concurrency Control, CPU Scheduling, Deadlocks	
Test-13	Operating System-2: Memory Management, I/O scheduling, File Systems,	
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Test-25	Digital Logic	
Test-26	Computer Organization and Architecture	
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Test-28	Theory of Computation	
Test-29	Operating System	
Test-30	Algorithms	
Test-31	Databases	
Test-32	Compiler Design	
Test-33	Programming and Data Structures	
Test-34	General Aptitude	
Multi-Subject Wise Grand Tests <i>(No.of Questions: 30, Time duration: 83 Minutes and Marks: 50 M)</i>		
Test-35	Programming and Data Structures	25-03-2023
Test-36	Computer Organization and Architecture and Digital Logic	
Test-37	Theory of Computation and Compiler Design	
Test-38	Computer Networks and Databases	
Test-39	Operating System and Algorithms	
Test-40	Engineering Mathematics and General Aptitude	
Test-41	Programming Languages & Data Structures, Computer Organization, Digital Logic & Computer Networks and Network Security	
Test-42	Theory of Computation, Compiler Design,Operating Systems, Algorithms & Database	
Full Length Mock Tests <i>(No.of Questions: 65, Time duration: 180 Minutes and Marks: 100 M)</i>		
Test-43	Full Length Mock Test-1	01-04-2023
Test-44	Full Length Mock Test-2	
Test-45	Full Length Mock Test-3	
Test-46	Full Length Mock Test-4	
Test-47	Full Length Mock Test-5	
Test-48	Full Length Mock Test-6	
Test-49	Full Length Mock Test-7	
Test-50	Full Length Mock Test-8	
Test-51	Full Length Mock Test-9	
Test-52	Full Length Mock Test-10	
Test-53	Full Length Mock Test-11	
Test-54	Full Length Mock Test-12	