ACE Engineering Academy
Leading Institute for ESE/GATE/PSUs

GATE-2022

Online Test Series

Computer Science and Information Technology - Schedule

No.of Tests : 63 + *53 free* practice tests of GATE-2021 Online Test Series		
	GATE - 2022 Test Series	Practice Tests GATE - 2021 Test Series
Topic wise Tests	23	22
Grand Tests (Subject Wise Tests + Multi-Subject Wise Tests)	28	19
Full Length Mock Tests	12	12
Total Tests - 116		

All tests will be Active upto GATE -2022 Examination.

Topic wise Tests

(No.of Questions: 15, Time duration: 45 Minutes and Marks: 25 M)

Test No	Name of the Topic	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.	03-05-2021
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:** Number System ALU & Data Path, Memory Organization (Cache, Main & Secondary Storage).	11-05-2021
Test-07	**Computer Organization and Architecture-2:** Instruction Pipelining, Pipeline Hazards, Control Unit Design(H/W & Micro Programmed Control), 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.	
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.	18-05-2021
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, Deadlocks	
Test-13	**Operating System-2:** Memory Management,CPU and I/O scheduling, File Systems,	
Test-14	**Algorithms-1:** Algorithm Analysis & Asymptotic Notations,Divide and Conquer, Greedy Method	25-05-2021
Test-15	**Algorithms-2:** Dynamic Programming,Graph Techniques.	
Test-16	**Database-1:** ER Diagrams, FD, Normalization	
Test-17	**Database-2:** SQL, RA & RC and Transaction concurrency, Indexing (e.g., B and B+ trees).	
Test-18	**Compiler Design:** Lexical Analysis & Parsing ,Semantic Analysis(SDT), Intermediate code generation, Basics of Optimization	01-06-2021
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.	08-06-2021
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	

Subject Wise Grand Tests - 1st Series

(No.of Questions: 30, Time duration: 90 Minutes and Marks: 50 M)

Test No	Name of the Subject	Date of Activation
Test-24	Engineering Mathematics	22-06-2021
Test-25	Digital Logic	
Test-26	Computer Organization and Architecture	29-06-2021
Test-27	Computer Networks	
Test-28	Theory of Computation	13-07-2021
Test-29	Operating System	
Test-30	Algorithms	20-07-2021
Test-31	Databases	
Test-32	Compiler Design	27-07-2021
Test-33	Programming and Data Structures	
Test-34	General Aptitude	03-08-2021

Full Length Mock Test - 1st Series

(No.of Questions: 65, Time duration: 180 Minutes and Marks: 100 M)

Test No	Name of the Mock	Date of Activation
Test-35	Full Length Mock Test-1	10-08-2021
Test-36	Full Length Mock Test-2	17-08-2021
Test-37	Full Length Mock Test-3	24-08-2021

Subject Wise Grand Tests - 2nd Series

(No.of Questions: 30, Time duration: 90 Minutes and Marks: 50 M)

Test No	Name of the Subject	Date of Activation
Test-38	Engineering Mathematics	31-08-2021
Test-39	Digital Logic	
Test-40	Computer Organization and Architecture	07-09-2021
Test-41	Computer Networks	
Test-42	Theory of Computation	14-09-2021
Test-43	Operating System	
Test-44	Algorithms	21-09-2021
Test-45	Databases	
Test-46	Compiler Design	28-09-2021
Test-47	Programming and Data Structures	
Test-48	General Aptitude	05-10-2021

Full Length Mock Test - 2nd Series

(No.of Questions: 65, Time duration: 180 Minutes and Marks: 100 M)

Test No	Name of the Mock	Date of Activation
Test-49	Full Length Mock Test-4	19-10-2021
Test-50	Full Length Mock Test-5	26-10-2021
Test-51	Full Length Mock Test-6	02-11-2021

Multi-Subject Wise Grand Tests

(No.of Questions: 30, Time duration: 90 Minutes and Marks: 50 M)

Test No	Name of the Subject	Date of Activation
Test-52	Programming and Data Structures	16-11-2021
Test-53	Computer Organization and Architecture and Digital Logic	
Test-54	Theory of Computation and Compiler Design	23-11-2021
Test-55	Computer Networks and Databases	
Test-56	Operating System and Algorithms	30-11-2021
Test-57	Engineering Mathematics and General Aptitude	

Full Length Mock Test - 3rd Series

(No.of Questions: 65, Time duration: 180 Minutes and Marks: 100 M)

Test No	Name of the Mock	Date of Activation
Test-58	Full Length Mock Test-7	21-12-2021
Test-59	Full Length Mock Test-8	28-12-2021
Test-60	Full Length Mock Test-9	04-01-2022
Test-61	Full Length Mock Test-10	11-01-2022
Test-62	Full Length Mock Test-11	18-01-2022
Test-63	Full Length Mock Test-12	25-01-2022

Note: The Syllabus considered as per Previoues year Notification of GATE. ACE Engineering Academy does not take any responsibility for deviations in syllabus in the final exam.

The Dates of above Tests may Change according to the GATE-2022 Exam schedule.

Tests will be activated at 02:00 pm on the scheduled day.

Free Practice Tests of GATE-2021 Online Test Series

Topic wise Tests

(No.of Questions: 15, Time duration: 45 Minutes and Marks: 25 M)

Test No	Name of the Topic	Date of Activation
CS_P-01	**Digital Logic-1:** Number Systems,Boolean Expression, Boolean Laws & K-maps	15-04-2021
CS_P-02	**Digital Logic-2:** Sequential Circuits & Counters,Combinational Circuits, Multiplex & De-Multiplex	
CS_P-03	**Computer Organization-1:** Number System ALU & Data Path, Memory Organization (Cache, Main & Secondary Storage).	
CS_P-04	**Computer Organization-2:** Instruction Pipelining, Pipeline Hazards, Control Unit Design(H/W & Micro Programmed Control), Machine Instructions & Addressing Modes, I/O Interface(Interrupt and DMA mode), Serial Communication Interface.	
CS_P-05	**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	
CS_P-06	**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.	
CS_P-07	**Theory of Computation-1:**Finite automata(DFA,NFA), Regular languages, Regular expression,closure properties of regular sets, pimping lemma. FA WITH OUTPUT, PDA,DPDA. Cfg,Normalisation of Cfg,Dcfl,CFL,closure properties.	
CS_P-08	**Theory of Computation-2:** Turning machine, Recursive languages , REL, closure properties of REL, LBA,Csl,closure properties Of csl, Decidable and undecidable/computability, Complexity.	
CS_P-09	**Discrete Mathematics-1:** Mathematical Logic & Set Theory, Relations, Lattices, Monoids, Groups	
CS_P-10	**Discrete Mathematics-2:** Graph Theory, Combinatorics	
CS_P-11	**Discrete Mathematics-3:** Probability and Statistics, Calculus, Matrix, Algebra, LU decomposition	
CS_P-12	**Operating Systems-1:** Introduction,Process Management,System Calls, Synchronization and Concurrency Control, Deadlocks	
CS_P-13	**Operating Systems-2:** Memory Management,CPU and I/O scheduling, File Systems,	
CS_P-14	**Algorithms-1:** Algorithm Analysis & Asymptotic Notations,Divide and Conquer, Greedy Method	
CS_P-15	**Algorithms-2:** Dynamic Programming,Graph Techniques.	
CS_P-16	**Database-1:** ER Diagrams, FD, Normalization	
CS_P-17	**Database-2:** SQL, RA & RC and Transaction concurrency, Indexing (e.g., B and B+ trees).	
CS_P-18	**Compiler Design:** Lexical Analysis & Parsing ,Semantic Analysis(SDT), Intermediate code generation, Basics of Optimization	
CS_P-19	**Programming Languages & Data Structures-1:** Programming in C,Recursion;Arrays, Stacks , Queues, Linked Lists, Trees, Graphs & Hashing	
CS_P-20	**Programming Languages & Data Structures-2:** Programming in C; Recursion,Arrays, Stacks , Queues, Linked Lists, Trees, Graphs & Hashing	
CS_P-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	
CS_P-22	**Numarical Ability:** 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. 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.	

Subject Wise Grand Tests

(No.of Questions: 30, Time duration: 90 Minutes and Marks: 50 M)

Test No	Name of the Subject	Date of Activation
CS_P-23	Digital Logic	20-04-2021
CS_P-24	Computer Organization	
CS_P-25	Computer Networks & Network Security	
CS_P-26	Theory of Computation	
CS_P-27	Discrete Mathematics	
CS_P-28	Operating Systems	
CS_P-29	Algorithms	
CS_P-30	Database	
CS_P-31	Compiler Design	
CS_P-32	Programming Languages & Data Structures	
CS_P-33	General Aptitude	

Multi-Subject Wise Grand Tests

(No.of Questions: 30, Time duration: 90 Minutes and Marks: 50 M)

Test No	Name of the Subject	Date of Activation
CS_P-34	Programming Languages & Data Structures	20-04-2021
CS_P-35	Computer Organization & Digital Logic	
CS_P-36	Theory of Computation & Compiler Design	
CS_P-37	Computer Networks and Network Security & Database	
CS_P-38	Operating Systems & Algorithms	
CS_P-39	Programming Languages & Data Structures, Computer Organization, Digital Logic & Computer Networks and Network Security	
CS_P-40	Theory of Computation, Compiler Design,Operating Systems, Algorithms & Database	
CS_P-41	Discrete Mathematics & General Aptitude	

Full Length Mock Test - 3rd Series

(No.of Questions: 65, Time duration: 180 Minutes and Marks: 100 M)

Test No	Name of the Mock	Date of Activation
CS_P-42	Full Length Mock Test-1	30-04-2021
CS_P-43	Full Length Mock Test-2	
CS_P-44	Full Length Mock Test-3	
CS_P-45	Full Length Mock Test-4	
CS_P-46	Full Length Mock Test-5	
CS_P-47	Full Length Mock Test-6	
CS_P-48	Full Length Mock Test-7	
CS_P-49	Full Length Mock Test-8	
CS_P-50	Full Length Mock Test-9	
CS_P-51	Full Length Mock Test-10	
CS_P-52	Full Length Mock Test-11	
CS_P-53	Full Length Mock Test-12	