



# ACE

Engineering Academy

## GATE-2021 Online Test Series

### Computer Science and Information Technology - Schedule

No. of Test : 64 (22 Topic wise Tests + 30 Grand Tests + 12 Full Length Mock Tests)  
+ **Free** 53 practice Tests of GATE-2020 Online Test Series

#### Topic wise Tests

Test No	Name of the Topic	No. of Questions	Max Marks	Duration	Date of Activation
Test-01	<b>Digital Logic-1:</b> Number Systems, Boolean Expression, Boolean Laws & K-maps	15	25	45 mins	03-06-2020
Test-02	<b>Digital Logic-2:</b> Sequential Circuits & Counters, Combinational Circuits, Multiplex & De-Multiplex	15	25	45 mins	
Test-03	<b>Computer Organization-1:</b> Number System ALU & Data Path, Memory Organization (Cache, Main & Secondary Storage).	15	25	45 mins	
Test-04	<b>Computer Organization-2:</b> Instruction Pipelining, Control Unit Design( H/W & Micro Programmed Control), Machine Instructions & Addressing Modes, I/O Interface(Interrupt and DMA mode), Serial Communication Interface.	15	25	45 mins	
Test-05	<b>Computer Networks-1:</b> Concept of Layering , LAN Technologies, Data Link Layer, Switching, Network Layer(IPv4, IPv6)	15	25	45 mins	11-06-2020
Test-06	<b>Computer Networks-2:</b> Routing Algorithms, TCP / UDP and Sockets, Congestion Control, Application Layer Protocols, Basics of Wifi , Network Security	15	25	45 mins	
Test-07	<b>Theory of Computation-1:</b> Finite Automata (DFA, NFA, $\epsilon$ -NFA) & Regular Expression	15	25	45 mins	
Test-08	<b>Theory of Computation-2:</b> Moore and Mealy Machines, Properties of Regular Languages, Grammar, CFG, CFL & PDA Turing Machines & Compatibility (Decidable, Un-Decidability)	15	25	45 mins	
Test-09	<b>Discrete Mathematics-1:</b> Mathematical Logic & Set Theory, Relations, Lattices , Groups	15	25	45 mins	18-06-2020
Test-10	<b>Discrete Mathematics-2:</b> Graph Theory, Combinatorics	15	25	45 mins	
Test-11	<b>Discrete Mathematics-3:</b> Probability, Calculus, Matrix, Algebra, LU decomposition	15	25	45 mins	
Test-12	<b>Operating Systems-1:</b> Introduction, Process Management, Synchronization and Concurrency Control, Deadlocks	15	25	45 mins	
Test-13	<b>Operating Systems-2:</b> Memory Management, File Systems	15	25	45 mins	25-06-2020
Test-14	<b>Algorithms-1:</b> Algorithm Analysis & Asymptotic Notations, Divide and Conquer, Greedy Method	15	25	45 mins	
Test-15	<b>Algorithms-2:</b> Dynamic Programming, Graph Techniques.	15	25	45 mins	
Test-16	<b>Database-1:</b> ER Diagrams, FD, Normalization	15	25	45 mins	
Test-17	<b>Database-2:</b> SQL, RA & RC and Transaction concurrency, Indexing (e.g., B and B+ trees).	15	25	45 mins	02-07-2020
Test-18	<b>Compiler Design:</b> Lexical Analysis & Parsing , Semantic Analysis(SDT), Intermediate code generation	15	25	45 mins	
Test-19	<b>Programming Languages &amp; Data Structures-1:</b> Programming in C, Recursion; Arrays, Stacks , Queues, Linked Lists, Trees, Graphs & Hashing	15	25	45 mins	
Test-20	<b>Programming Languages &amp; Data Structures-2:</b> Programming in C; Recursion, Arrays, Stacks , Queues, Linked Lists, Trees, Graphs & Hashing	15	25	45 mins	
Test-21	<b>Verbal Ability:</b> English grammar, sentence completion, verbal analogies, word groups, instructions, critical reasoning and verbal deduction.	15	25	45 mins	02-07-2020
Test-22	<b>Numerical Ability:</b> Numerical computation, numerical estimation, numerical reasoning and data interpretation.	15	25	45 mins	

### Subject Wise Grand Tests - 1<sup>st</sup> Series

Test No	Name of the Topic	No. of Questions	Max Marks	Duration	Date of Activation
Test-23	Digital Logic	30	50	90 mins	16-07-2020
Test-24	Computer Organization	30	50	90 mins	
Test-25	Computer Networks & Network Security	30	50	90 mins	23-07-2020
Test-26	Theory of Computation	30	50	90 mins	
Test-27	Discrete Mathematics	30	50	90 mins	30-07-2020
Test-28	Operating Systems	30	50	90 mins	
Test-29	Algorithms	30	50	90 mins	06-08-2020
Test-30	Database	30	50	90 mins	
Test-31	Compiler Design	30	50	90 mins	12-08-2020
Test-32	Programming Languages & Data Structures	30	50	90 mins	
Test-33	General Aptitude	30	50	90 mins	

### Full Length Mock GATE Test - 1<sup>st</sup> Series (As per GATE pattern)

Test No	Name of the Topic	No. of Questions	Max Marks	Duration	Date of Activation
Test-34	Full Length GATE Mock Test-1	65	100	180 mins	20-08-2020
Test-35	Full Length GATE Mock Test-2	65	100	180 mins	27-08-2020
Test-36	Full Length GATE Mock Test-3	65	100	180 mins	03-09-2020

### Subject Wise Grand Tests - 2<sup>nd</sup> Series

Test No	Name of the Topic	No. of Questions	Max Marks	Duration	Date of Activation
Test-37	Digital Logic	30	50	90 mins	10-09-2020
Test-38	Computer Organization	30	50	90 mins	
Test-39	Computer Networks & Network Security	30	50	90 mins	17-09-2020
Test-40	Theory of Computation	30	50	90 mins	
Test-41	Discrete Mathematics	30	50	90 mins	24-09-2020
Test-42	Operating Systems	30	50	90 mins	
Test-43	Algorithms	30	50	90 mins	01-10-2020
Test-44	Database	30	50	90 mins	
Test-45	Compiler Design	30	50	90 mins	08-10-2020
Test-46	Programming Languages & Data Structures	30	50	90 mins	
Test-47	General Aptitude	30	50	90 mins	

### Full Length Mock GATE Tests- 2<sup>nd</sup> Series

Test No	Name of the Topic	No. of Questions	Max Marks	Duration	Date of Activation
Test-48	Full Length GATE Mock Test-4	65	100	180 mins	15-10-2020
Test-49	Full Length GATE Mock Test-5	65	100	180 mins	22-10-2020
Test-50	Full Length GATE Mock Test-6	65	100	180 mins	29-10-2020

### Multi-Subject Wise Grand Tests

Test No	Name of the Topic	No. of Questions	Max Marks	Duration	Date of Activation
Test-51	Programming Languages & Data Structures	30	50	90 mins	05-11-2020
Test-52	Computer Organization & Digital Logic	30	50	90 mins	
Test-53	Theory of Computation & Compiler Design	30	50	90 mins	12-11-2020
Test-54	Computer Networks and Network Security & Database	30	50	90 mins	
Test-55	Operating Systems & Algorithms	30	50	90 mins	19-11-2020
Test-56	Programming Languages & Data Structures, Computer Organization, Digital Logic & Computer Networks and Network Security	30	50	90 mins	
Test-57	Theory of Computation, Compiler Design, Operating Systems, Algorithms & Database	30	50	90 mins	26-11-2020
Test-58	Discrete Mathematics & General Aptitude	30	50	90 mins	

### Full Length Mock GATE Tests - 3<sup>rd</sup> Series

Test No	Name of the Topic	No. of Questions	Max Marks	Duration	Date of Activation
Test-59	Full Length GATE Mock Test-7	65	100	180 mins	03-12-2020
Test-60	Full Length GATE Mock Test-8	65	100	180 mins	10-12-2020
Test-61	Full Length GATE Mock Test-9	65	100	180 mins	05-01-2020
Test-62	Full Length GATE Mock Test-10	65	100	180 mins	12-01-2020
Test-63	Full Length GATE Mock Test-11	65	100	180 mins	19-01-2020
Test-64	Full Length GATE Mock Test-12	65	100	180 mins	26-01-2020

## Free Practice Tests of GATE-2020 Online Test Series

### Topic wise Tests

Test No	Name of the Topic	No. of Questions	Max Marks	Duration	Date of Activation
CSIT_P01	<b>Digital Logic-1:</b> Number Systems, Boolean Expression, Boolean Laws & K-maps	15	25	45 mins	20-04-2020
CSIT_P02	<b>Digital Logic-2:</b> Sequential Circuits & Counters, Combinational Circuits, Multiplex & De-Multiplex	15	25	45 mins	
CSIT_P03	<b>Computer Organization-1:</b> Number System ALU & Data Path, Memory Organization (Cache, Main & Secondary Storage).	15	25	45 mins	
CSIT_P04	<b>Computer Organization-2:</b> Instruction Pipelining, Control Unit Design( H/W & Micro Programmed Control), Machine Instructions & Addressing Modes, I/O Interface(Interrupt and DMA mode), Serial Communication Interface.	15	25	45 mins	
CSIT_P05	<b>Computer Networks-1:</b> Concept of Layering , LAN Technologies, Data Link Layer, Switching, Network Layer(IPv4, IPv6)	15	25	45 mins	
CSIT_P06	<b>Computer Networks-2:</b> Routing Algorithms, TCP / UDP and Sockets, Congestion Control, Application Layer Protocols, Basics of Wifi , Network Security	15	25	45 mins	
CSIT_P07	<b>Theory of Computation-1:</b> Finite Automata (DFA, NFA, E-NFA) & Regular Expression	15	25	45 mins	
CSIT_P08	<b>Theory of Computation-2:</b> Moore and Mealy Machines, Properties of Regular Languages, Grammar, CFG, CFL & PDA Turing Machines & Compatibility (Decidable, Un-Decidability)	15	25	45 mins	
CSIT_P09	<b>Discrete Mathematics-1:</b> Mathematical Logic & Set Theory, Relations, Lattices , Groups	15	25	45 mins	
CSIT_P10	<b>Discrete Mathematics-2:</b> Graph Theory, Combinatorics	15	25	45 mins	
CSIT_P11	<b>Discrete Mathematics-3:</b> Probability, Calculus, Matrix, Algebra, LU decomposition	15	25	45 mins	
CSIT_P12	<b>Operating Systems-1:</b> Introduction, Process Management, Synchronization and Concurrency Control, Deadlocks	15	25	45 mins	
CSIT_P13	<b>Operating Systems-2:</b> Memory Management, File Systems	15	25	45 mins	

Test No	Name of the Topic	No. of Questions	Max Marks	Duration	Date of Activation
CSIT_P14	<b>Algorithms-1:</b> Algorithm Analysis & Asymptotic Notations, Divide and Conquer, Greedy Method	15	25	45 mins	20-04-2020
CSIT_P15	<b>Algorithms-2:</b> Dynamic Programming, Graph Techniques.	15	25	45 mins	
CSIT_P16	<b>Database-1:</b> ER Diagrams, FD, Normalization	15	25	45 mins	
CSIT_P17	<b>Database-2:</b> SQL, RA & RC and Transaction concurrency, Indexing (e.g., B and B+ trees).	15	25	45 mins	
CSIT_P18	<b>Compiler Design:</b> Lexical Analysis & Parsing, Semantic Analysis(SDT), Intermediate code generation	15	25	45 mins	
CSIT_P19	<b>Programming Languages &amp; Data Structures-1:</b> Programming in C, Recursion; Arrays, Stacks, Queues, Linked Lists, Trees, Graphs & Hashing	15	25	45 mins	
CSIT_P20	<b>Programming Languages &amp; Data Structures-2:</b> Programming in C; Recursion, Arrays, Stacks, Queues, Linked Lists, Trees, Graphs & Hashing	15	25	45 mins	
CSIT_P21	<b>Verbal Ability:</b> English grammar, sentence completion, verbal analogies, word groups, instructions, critical reasoning and verbal deduction.	15	25	45 mins	
CSIT_P22	<b>Numerical Ability:</b> Numerical computation, numerical estimation, numerical reasoning and data interpretation.	15	25	45 mins	

### Subject Wise Grand Tests

Test No	Name of the Topic	No. of Questions	Max Marks	Duration	Date of Activation
CSIT_P23	Digital Logic	30	50	90 mins	20-04-2020
CSIT_P24	Computer Organization	30	50	90 mins	
CSIT_P25	Computer Networks & Network Security	30	50	90 mins	
CSIT_P26	Theory of Computation	30	50	90 mins	
CSIT_P27	Discrete Mathematics	30	50	90 mins	
CSIT_P28	Operating Systems	30	50	90 mins	
CSIT_P29	Algorithms	30	50	90 mins	
CSIT_P30	Database	30	50	90 mins	
CSIT_P31	Compiler Design	30	50	90 mins	
CSIT_P32	Programming Languages & Data Structures	30	50	90 mins	
CSIT_P33	General Aptitude	30	50	90 mins	

### Multi-Subject Wise Grand Tests

Test No	Name of the Topic	No. of Questions	Max Marks	Duration	Date of Activation
CSIT_P34	Programming Languages & Data Structures	30	50	90 mins	20-04-2020
CSIT_P35	Computer Organization & Digital Logic	30	50	90 mins	
CSIT_P36	Theory of Computation & Compiler Design	30	50	90 mins	
CSIT_P37	Computer Networks and Network Security & Database	30	50	90 mins	
CSIT_P38	Operating Systems & Algorithms	30	50	90 mins	
CSIT_P39	Programming Languages & Data Structures, Computer Organization, Digital Logic & Computer Networks and Network Security	30	50	90 mins	
CSIT_P40	Theory of Computation, Compiler Design, Operating Systems, Algorithms & Database	30	50	90 mins	
CSIT_P41	Discrete Mathematics & General Aptitude	30	50	90 mins	

## Full Length Mock GATE Tests

Test No	Name of the Topic	No. of Questions	Max Marks	Duration	Date of Activation
CSIT_P42	Full Length GATE Mock Test-1	65	100	180 mins	20-04-2020
CSIT_P43	Full Length GATE Mock Test-2	65	100	180 mins	
CSIT_P44	Full Length GATE Mock Test-3	65	100	180 mins	
CSIT_P45	Full Length GATE Mock Test-4	65	100	180 mins	
CSIT_P46	Full Length GATE Mock Test-5	65	100	180 mins	
CSIT_P47	Full Length GATE Mock Test-6	65	100	180 mins	
CSIT_P48	Full Length GATE Mock Test-7	65	100	180 mins	
CSIT_P49	Full Length GATE Mock Test-8	65	100	180 mins	
CSIT_P50	Full Length GATE Mock Test-9	65	100	180 mins	
CSIT_P51	Full Length GATE Mock Test-10	65	100	180 mins	
CSIT_P52	Full Length GATE Mock Test-11	65	100	180 mins	
CSIT_P53	Full Length GATE Mock Test-12	65	100	180 mins	