



**ACE**  
Engineering Academy  
(Leading institute for ESE/GATE/PSUs)




**GATE - 2018**



**ONLINE TEST SERIES**

**COMPUTER SCIENCE & INFORMATION TECHNOLOGY (CS)**

**—≡ No. of Tests : 62 ≡—**

	Chapter / Topic wise Tests	22
	Subject Wise / Multi Subject Grand Tests	28
	Full Length Mock Tests	12

**TEST SERIES HIGHLIGHTS ≡—**

- ★ All India Rank will be given for each test.
- ★ Test wise and overall statistics.
- ★ Comparison with toppers.
- ★ Question wise and test wise time analysis & comparison with toppers on time management.

## Division of Subjects into Various Topics

Subject & Code	Topic Code	Topic/Chapter
<b>Digital Logic</b>  <b>Subject code: GDL</b>	GDL-1	Number Systems, Boolean Expression, Boolean Laws & K-maps
	GDL-2	Sequential Circuits & Counters, Combinational Circuits, Multiplex & De-Multiplex
<b>Computer Organization</b>  <b>Subject code: GCO</b>	GCO-1	Number System ALU & Data Path, Memory Organization (Cache, Main & Secondary Storage).
	GCO-2	Instruction Pipelining, Control Unit Design( H/W & Micro Programmed Control), Machine Instructions & Addressing Modes, I/O Interface(Interrupt and DMA mode), Serial Communication Interface.
<b>Discrete Mathematics</b>  <b>Subject code: GDM</b>	GDM-1	Mathematical Logic & Set Theory, Relations, Lattices, Groups
	GDM-2	Graph Theory, Combinatorics
	GDM-3	Probability, Calculus Matrix Algebra, LU decomposition
<b>Theory of Computation</b>  <b>Subject code: GTOC</b>	GTOC- 1	Finite Automata (DFA, NFA, E-NFA) & Regular Expression
	GTOC-2	Moore and Mealy Machines, Properties of Regular Languages, Grammar, CFG, CFL & PDA Turing Machines & Compatibility (Decidable, Un-Decidability)
<b>Compiler Design</b>  <b>Subject code: GCD</b>	GCD-1	Lexical Analysis & Parsing, Semantic Analysis(SDT), Intermediate code generation
<b>Programming Language &amp; Data Structures</b>  <b>Subject code: GPLDS</b>	GPLDS-1	Programming in C, Recursion; Arrays, Stacks, Queues, Linked Lists, Trees, Graphs & Hashing
	GPLDS-2	Programming in C; Recursion, Arrays, Stacks, Queues, Linked Lists, Trees, Graphs & Hashing
<b>Operating Systems</b>  <b>Subject code: GOS</b>	GOS-1	Introduction, Process Management, Synchronization and Concurrency Control, Deadlocks
	GOS-2	Memory Management, File Systems

<b>Subject &amp; Code</b>	<b>Topic Code</b>	<b>Topic/Chapter</b>
<b>Algorithms</b>  <b>Subject code: GAL</b>	GAL-1	Algorithm Analysis & Asymptotic Notations, Divide and Conquer, Greedy Method
	GAL-2	Dynamic Programming, Graph Techniques.
<b>Database</b>  <b>Subject code: GDB</b>	GDB-1	ER Diagrams, FD, Normalization
	GDB-2	SQL, RA & RC and Transaction concurrency, Indexing (e.g., B and B+ trees).
<b>Computer Networks &amp; Network Security</b>  <b>Subject code: GCN</b>	GCN-1	Concept of Layering , LAN Technologies, Data Link Layer, Switching, Network Layer (IPv4, IPv6)
	GCN-2	Routing Algorithms, TCP / UDP and Sockets, Congestion Control, Application Layer Protocols, Basics of Wifi , Network Security
<b>General Aptitude</b>  <b>Subject code: GGA</b>	GGA-1	English grammar, sentence completion, verbal analogies, word groups, instructions, critical reasoning and verbal deduction
	GGA-2	Numerical computation, numerical estimation, numerical reasoning and data interpretation.

## Topic/Chapter-wise Tests

Each test carries 25 marks and 45 minutes duration

Test consists of 5 one mark questions and 10 two marks questions

*Commences from 10<sup>th</sup> June, 2017 onwards, the detailed test schedule is as follows:*

*Tests will be activated at 2:00 pm on scheduled day*

Test No	Topic codes	Date of Activation
CSIT-01	GDL- 1	10.06.2017
CSIT-02	GDL- 2	14.06.2017
CSIT-03	GCO – 1	17.06.2017
CSIT-04	GCO – 2	20.06.2017
CSIT-05	GCN – 1	23.06.2017
CSIT-06	GCN – 2	26.06.2017
CSIT-07	GTOC – 1	29.06.2017
CSIT-08	GTOC – 2	02.07.2017
CSIT-09	GCD – 1	05.07.2017
CSIT-10	GPLDS – 1	08.07.2017
CSIT-11	GPLDS – 2	12.07.2017
CSIT-12	GOS – 1	15.07.2017
CSIT-13	GOS – 2	18.07.2017
CSIT-14	GAL – 1	21.07.2017
CSIT-15	GAL – 2	24.07.2017
CSIT-16	GDB – 1	27.07.2017
CSIT-17	GDB – 2	30.07.2017
CSIT-18	GDM – 1	02.08.2017
CSIT-19	GDM– 2	05.08.2017
CSIT-20	GDM– 3	07.08.2017
CSIT-21	GGA– 1	08.08.2017
CSIT-22	GGA– 2	09.08.2017

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

Each test carries 50 marks and 90 minutes duration.

Test consists of 10 one mark questions and 20 two marks questions

*Commences from 11<sup>th</sup> August, 2017 onwards, the detailed test schedule is as follows:*

Test No	Subject codes	Date of Activation
CSIT-23	GDB	11.08.2017
CSIT-24	GOS	14.08.2017
CSIT-25	GDL	18.08.2017
CSIT-26	GCO	21.08.2017
CSIT-27	GPLDS	24.08.2017
CSIT-28	GAL	28.08.2017
CSIT-29	GTOC	31.08.2017
CSIT-30	GCD	03.09.2017
CSIT-31	GDM	07.09.2017
CSIT-32	GCN	10.09.2017
CSIT-33	GGA	12.09.2017

## Full Length Mock GATE -1<sup>st</sup> Series

As per GATE Pattern

Each test carries 100 marks and 3 hours duration.

*Commences from 14<sup>th</sup> September, 2017 onwards, the detailed test schedule is as follows:*

Test No	Mock GATE codes	Date of Activation
CSIT-34	Mock – 1	14.09.2017
CSIT-35	Mock – 2	17.09.2017
CSIT-36	Mock – 3	20.09.2017

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

Each test carries 50 marks and 90 minutes duration.

Test consists of 10 one mark questions and 20 two marks questions

*Commences from 23<sup>rd</sup> September, 2017 onwards, the detailed test schedule is as follows:*

Test No	Subject codes	Date of Activation
CSIT-37	GCN	23.09.2017
CSIT-38	GDB	26.09.2017
CSIT-39	GDL	03.10.2017
CSIT-40	GCO	06.10.2017
CSIT-41	GPLDS	09.10.2017
CSIT-42	GAL	12.10.2017
CSIT-43	GTOC	15.10.2017
CSIT-44	GCD	19.10.2017
CSIT-45	GOS	22.10.2017
CSIT-46	GDM	25.10.2017
CSIT-47	GGA	27.10.2017

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

As per GATE Pattern

Each test carries 100 marks and 3 hours duration.

*Commences from 30<sup>th</sup> October, 2017 onwards, the detailed test schedule is as follows:*

Test No	Mock GATE codes	Date of Activation
CSIT-48	Mock – 4	30.10.2017
CSIT-49	Mock – 5	08.11.2017
CSIT-50	Mock – 6	15.11.2017

## Multi Subject Grand Tests

Each test carries 50 marks and 90 minutes duration.

Test consists of 10 one mark questions and 20 two marks questions

*Commences from 19<sup>th</sup> November , 2017 onwards, the detailed test schedule is as follows:*

Test No	Subjects Codes	Date of Activation
CSIT-51	GPLDS	19.11.2017
CSIT-52	GCO , GDL	23.11.2017
CSIT-53	GTOC, GCD	28.11.2017
CSIT-54	GCN, GDB	02.12.2017
CSIT-55	GOS , GAL	07.12.2017
CSIT-56	GDM ,GGA	11.12.2017

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

As per GATE Pattern

Each test carries 100 marks and 3 hours duration.

*Commences from 21<sup>st</sup> December, 2017 onwards, the detailed test schedule is as follows:*

Test No	Mock GATE codes	Date of Activation
CSIT-57	Mock – 7	21.12.2017
CSIT-58	Mock – 8	28.12.2017
CSIT-59	Mock – 9	04.01.2018
CSIT-60	Mock – 10	12.01.2018
CSIT-61	Mock – 11	20.01.2018
CSIT-62	Mock – 12	26.01.2018

**NOTE:** The Dates of above MOCK GATE Exams may Change according to the GATE – 2018 Exam schedule.