

Subject	2025 Set-1	2025 Set-2	2024 Set-1	2024 Set-2	2023 Set-1	2022 Set-1
Aptitude	15	15	15	15	15	15
Engineering Maths	7	9	7	6	4	4
Discrete Maths	6	3	6	5	12	15
C & Data Structure	10	12	6	7	12	11
Algorithm	8	8	9	4	6	8
Theory of Computation	10	7	7	7	6	8
Compiler Design	6	6	6	10	5	5
Database Management System	8	9	5	10	5	9
Digital Logic Design	6	9	6	5	6	5
Computer Organisation & Architecture	8	9	9	9	10	7
Operating System	8	7	6	8	7	10
Computer Network	8	6	6	11	8	9

C & Data Structure Topic	2025 Set-1	2025 Set-2	2024 Set-1	2024 Set-2	2023	2022
Operators, Data types, Loop	2	1	1	0	0	2
Recursion, Function, Storage	4	2	2	1	3	0
Pointers	0	3	0	2	0	3
Array, Stack, Queue, Linked List	2	6	1	3	3	3
Tree, Hashing	2	2	2	1	6	2

Algorithm Topic	2025 Set-1	2025 Set-2	2024 Set-1	2024 Set-2	2023	2022
Analysis of Algorithm	1	0	3	1	4	1
Divide and Conquer	0	0	2	1	0	0
Greedy Algorithm	2	1	0	1	0	0
Graph Algorithm	2	4	3	2	2	4
Dynamic Programming	0	0	0	0	0	0

Topic (Left)	TOC (Right)	2025 Set-1	2025 Set-2	2024 Set-1	2024 Set-2	2023	2022
REGULAR EXPRESSION	FA & Regular Expression	5	2	4	5	2	1
FINITE AUTOMATA	Regular Language & Grammar	2	2	1	0	1	0
LANGUAGE CLASS IDENTIFICATION	CFL & CFG	3	3	2	2	2	4
CONTEXT FREE LANGUAGE	Turing Machine	0	0	0	0	1	1
Decidability	Undecidability & Reducibility	0	0	0	0	0	2

Left panel (Theory of Computation)	TOC (CD)	2025 Set-1	2025 Set-2	2024 Set-1	2024 Set-2	2023	2022
PARSING	Lexical Analysis	1	0	0	1	1	0
SYNTAX DIRECTED TRANSLATION	Syntax Analysis	2	4	2	6	0	1
RUNTIME ENVIRONMENT	SDT	0	1	2	1	2	2
	Intermediate Code	2	1	0	2	0	0
	Code Optimization & RE	1	0	2	0	2	2

Left panel (Digital Logic Design topics)	CD	2025 Set-1	2025 Set-2	2024 Set-1	2024 Set-2	2023	2022
K MAP MINIMIZATION	Number System	1	0	1	2	1	3
NUMBER SYSTEM	Boolean Algebra, Logic Gates, K-Map	3	5	3	3	0	0
MUX & DEMUX	SDT	0	0	2	0	3	2
COMPARATOR & PARALLEL ADDER	Combinational Circuits	0	0	2	0	2	2
FLIP FLOP AND COUNTER	Sequential Circuits	2	1	0	0	2	0

Left panel (Database Management System)	2025 Set-1	2025 Set-2	2024 Set-1	2024 Set-2	2023	2022
ER Model	0	0	1	1	1	0
FD & Normalization	0	0	2	2	0	3
Transaction	1	3	0	4	0	2
SQL & RA	6	4	1	2	2	4
File & Indexing	1	2	1	1	2	0

Left panel (Computer Organisation & Architecture)	2025 Set-1	2025 Set-2	2024 Set-1	2024 Set-2	2023	2022
Machine instr & Addressing modes & Floating Point	0	2	0	3	4	0
ALU & CU	3	3	0	0	0	0
Pipelining	1	2	5	5	3	1
Cache Memory	2	6	6	2	0	4
I/O Interface	0	0	2	3	2	0

Left panel (Operating System)	2025 Set-1	2025 Set-2	2024 Set-1	2024 Set-2	2023	2022
Process & CPU Scheduling	3	1	2	3	3	2
Synchronization	0	0	2	2	0	1
Deadlocks	0	2	0	0	0	1
Memory Management	3	2	2	3	4	4
File and Disk	2	2	0	0	0	2

1. CPU SCHEDULING
2. PAGE REPLACEMENT ALGORITHM
3. SYNCHRONIZATION
4. VIRTUAL MEMORY
5. RESOURCE ALLOCATION GRAPH
6. DISK SCHEDULING

Left panel (Computer Network)	CN	2025 Set-1	2025 Set-2	2024 Set-1	2024 Set-2	2023	2022
Stop & Wait Protocol	IP addressing	3	1	0	0	2	2
GB-N & SR Protocol	Data link layer	2	2	2	2	1	1
Subnetting	Network layer	2	0	0	2	1	2
Fragmentation	transport	1	0	0	2	2	2
TCP State Diagram & Congestion Control	application	0	2	2	3	2	2
Routing Algorithm & Application Layer Protocol							

Left panel (Aptitude)	2025 Set-1	2025 Set-2	2024 Set-1	2024 Set-2	2023	2022
Quantitative Aptitude	6	6	7	6	6	6
Analytical Aptitude	5	6	1	6	0	6
Spatial Aptitude	1	0	4	0	3	0
Verbal Aptitude	3	3	3	3	6	3

Left panel (Engineering Maths)	2025 set 1	2025 Set-2	2024	Set2 24	2023	2022
Linear Algebra	3	4	3	2	2	3
Calculus	1	1	1	1	2	1
Probability	3	2	3	3	0	0

1. EIGEN VALUES & EIGEN VECTORS
2. SYSTEM OF LINEAR EQUATIONS
3. MAXIMA & MINIMA
4. CONDITIONAL PROBABILITY
1. GRAPH CONNECTIVITY & PLANARITY
2. PROPOSITIONAL & FIRST ORDER LOGIC
3. COMBINATORICS
4. SET, RELATION & FUNCTION
5. GROUP THEORY

Left panel	25 set 1	2025 Set-2	2024 Set-1	2024 Set-2	2023	2022	
Logic	2	0	0	1	2	0	-
Set Theory	3	2	3	3	5	1	-
Graph Theory	1	0	3	1	2	14	-
Combinatorics	0	0	0	0	3	0	-

Subject	Avg. Marks	Priority
Aptitude	15	★★★★★
C & DS	10	★★★★★
COA	9	★★★★
OS	8	★★★★
CN	8	★★★★
TOC	8	★★★★
DBMS	7	★★★
Algo	7	★★★
Digital Logic	6	★★★
Compiler	6	★★★
Discrete	6	★★
Engg Maths	6	★★

No.	Subject	Avg. Marks (Approx.)	Key Topics	Why Important / Strategy
1	Aptitude	15	Percentages, Ratio, Probability, Puzzles, Data Interpretation, Logical Reasoning	Fixed 15 marks every year; easiest scoring if practiced daily.
2	Engineering Mathematics	6–9	Linear Algebra, Calculus, Probability, Statistics, Numerical Methods	Appears in core + applied questions; conceptual clarity needed.
3	Discrete Mathematics	5–15	Sets, Logic, Graph Theory, Combinatorics, Boolean Algebra	Fundamental to CS theory; sometimes high weight (up to 15 marks).

4	C Programming & Data Structure	8–12	Operators/Loops (1–2), Recursion (2–4), Pointers (0–3), Array/Stack/Queue/LL (2–6), Tree/Hashing (1–6)	Very high weight; base for algorithms and coding logic. Practice dry-runs.
5	Algorithm	6–9	Analysis (1–4), Divide & Conquer (0–2), Greedy (0–2), Graph (2–4), DP (0–1)	Central to programming; focus on graph & time complexity patterns.
6	Theory of Computation (TOC)	7–10	DFA/NFA, Regular Expressions, CFG, PDA, Turing Machine, Decidability	Conceptual subject; repetitive question types.
7	Compiler Design	5–6	Lexical Analysis, Parsing (LL/LR), Intermediate Code, Optimization, Register Allocation	Directly linked to TOC; predictable patterns.
8	Database Management System (DBMS)	6–9	ER Model, Normalization, SQL, Transactions, Concurrency, Indexing	Scoring and conceptual; focus on SQL + normalization numericals.
9	Digital Logic Design	5–9	Number Systems, Boolean Algebra, K-Maps, Flip-Flops, Counters, Timing	Conceptual + numerical; easy if practiced.
10	Computer Organisation & Architecture (COA)	8–10	ALU, Pipelining, Cache, Addressing Modes, Instruction Set, DMA	High scoring and numerical-based; cache and pipeline questions common.
11	Operating System (OS)	6–8	Process Scheduling, Deadlocks, Memory Mgmt, Synchronization, File Systems	Core subject; numerical + theoretical mix; repeat patterns each year.
12	Computer Networks (CN)	6–10	OSI/TCP-IP Layers, IP Addressing, Routing, TCP/UDP, CRC, Application Protocols	Consistent 6–11 marks; focus on subnetting + transport layer.

Section	Type	Difficulty	Marks Range	Strategy Tip
Aptitude	General	Easy	15	Practice daily from PYQs
Core CS	Conceptual	Moderate	50–55	Focus on understanding, not memorizing
Maths	Formula-based	Moderate	10–15	Keep weekly revision sessions
Programming	Application	Medium	10–15	Solve 30+ code tracing problems

GATE 2026 CS/IT - Subject-wise Average Marks Distribution

