An educational contribution by Techtud

Test Series Platform: https://techtud.com

Join Preparation Sprint for GATE-2019 at https://techtud.com/virtualgate/2019/registration

September

Date	Topic	
15 Sep, Sat	Propositional and First Order Logic	
16 Sep, Sun	Sets, relations, functions, partial orders and lattices	
17 Sep, Mon		
18 Sep, Tue	Group Theory	
19 Sep, Wed	Graphs: connectivity, matching, coloring	
20 Sep, Thu	Combinatorics: counting	
21 Sep, Fri	Recurrence relations	
22 Sep, Sat	Generating functions	
23 Sep, Sun	Linear Algebra: Matrices, determinants, system of linear equations, eigenvalues and eigenvectors, LU decomposition	Test -1 (Maths-1)
24 Sep, Mon		
25 Sep, Tue	Calculus: Limits, continuity and differentiability. Maxima and minima, Integration	
26 Sep, Wed		
27 Sep, Thu	Probability: Random variables. various distributions	
28 Sep, Fri	Mean, median, mode and standard deviation, Conditional probability and Bayes theorem	
29 Sep, Sat	Revision	Test-2 (Math
30 Sep, Sun	ER-model	

My GATE 2019 Status

☐	Mathematics - 1
☐	Mathematics - 2
☐	Database Management System
☐	Digital Logic
☐	Computer Organization
☐	Programming Language & Data Structure
☐	Algorithms
☐	Operating System
☐	Computer Networks
☐	Compiler Design
☐	Theory of Computation
☐	Aptitude

October

Date	Topic	
1 Oct, Mon	Database Design	-2 (Math
2 Oct, Tue		
3 Oct, Wed	Relational algebra, Relational calculus	
4 Oct, Thu		
5 Oct, Fri	SQL	
6 Oct, Sat	Transactions and concurrency control	
7 Oct, Sun		
8 Oct, Mon	File organization, indexing (e.g., B and B+ trees)	
9 Oct, Tue		
10 Oct, Wed	Revision	Test-3 (DBMS)
11 Oct, Thu	Boolean algebra	
12 Oct, Fri	Number representations	
13 Oct, Sat	Minimisation	
14 Oct, Sun	Combinational Circuit	
15 Oct, Mon		
16 Oct, Tue	Sequential Circuit	
17 Oct, Wed		
18 Oct, Thu	Revision	Test-4 (Digital Logic)
19 Oct, Fri	Computer arithmetic (fixed and floating point)	
20 Oct, Sat	Machine instructions and addressing modes	
21 Oct, Sun	ALU, data-path and control unit	
22 Oct, Mon	Instruction pipelining	
23 Oct, Tue	Memory hierarchy: cache, main memory and secondary storage	
24 Oct, Wed	I/O interface (Interrupt and DMA mode)	
25 Oct, Thu	Revision	
26 Oct, Fri		
27 Oct, Sat		Test-5 (CO)
28 Oct, Sun	Operators	
29 Oct, Mon	Scope of variables	
30 Oct, Tue	Function	
31 Oct, Wed	Recursion	

November

Date	Topic	
1 Nov, Thu	Arrays	
2 Nov, Fri	Pointers	
3 Nov, Sat	Structure	
4 Nov, Sun	Revision	Test-6 (PL)
5 Nov, Mon	Arrays	
6 Nov, Tue	Linked List	
7 Nov, Wed	Stack, Queue	
8 Nov, Thu	Trees, Binary search trees	
9 Nov, Fri		
10 Nov, Sat	Binary heaps	
11 Nov, Sun	Graphs	
12 Nov, Mon	Revision	Test-7 (DS)
13 Nov, Tue	Asymptotic worst case time and space complexity	
14 Nov, Wed	Sorting	
15 Nov, Thu	Searching	
16 Nov, Fri	Hashing	
17 Nov, Sat	Algorithm design techniques: greedy, dynamic programming and divide-and-conquer	
18 Nov, Sun		
19 Nov, Mon	Graph search, minimum spanning trees, shortest paths	
20 Nov, Tue		
21 Nov, Wed	Revision	Test-8 (Algorithms)
22 Nov, Thu		
23 Nov, Fri	Process Management	
24 Nov, Sat	Process Synchronisation	
25 Nov, Sun		
26 Nov, Mon	Deadlock	
27 Nov, Tue	Memory management	
28 Nov, Wed		
29 Nov, Thu	Virtual memory	
30 Nov, Fri		

December

Date	Topic	
1 Dec, Sat	File systems	Test-9 (OS)
2 Dec, Sun	Revision	
3 Dec, Mon		
4 Dec, Tue	Concept of layering. LAN technologies (Ethernet)	
5 Dec, Wed		
6 Dec, Thu	Flow and error control techniques, Switching	
7 Dec, Fri		
8 Dec, Sat		
9 Dec, Sun	IPv4/IPv6, routers and routing algorithms (distance vector, link state)	
10 Dec, Mon		
11 Dec, Tue		
12 Dec, Wed	TCP/UDP and sockets, congestion control	
13 Dec, Thu		
14 Dec, Fri	Application layer protocols (DNS, SMTP, POP, FTP, HTTP). Basics of Wi-Fi	
15 Dec, Sat	Network security: authentication, basics of public key and private key cryptography, digital signatures and certificates, firewalls	Test- 10 (Computer Networks)
16 Dec, Sun		
17 Dec, Mon		
18 Dec, Tue	Revision	
19 Dec, Wed		
20 Dec, Thu	Regular expressions and finite automata	
21 Dec, Fri		
22 Dec, Sat		
23 Dec, Sun	Context-free grammars and push-down automata	
24 Dec, Mon		
25 Dec, Tue		
26 Dec, Wed	Turing machines	
27 Dec, Thu		
28 Dec, Fri	Undecidability	
29 Dec, Sat		Test- 11 (TOC
30 Dec, Sun	Revision	
31 Dec, Mon		

January

Date	Topic	
1 Jan, Tue	Lexical analysis	
2 Jan, Wed	Parsing	
3 Jan, Thu		
4 Jan, Fri	Syntax-directed translation	
5 Jan, Sat	Runtime environments & Intermediate code generation	Test-12 (CD)
6 Jan, Sun	Revision	
7 Jan, Mon	Number Systems, Averages, Alligations and Mixtures	
8 Jan, Tue	Progressions Percentages, Profit and Loss	
9 Jan, Wed	Time and Work, Time, Distance and Speed	
10 Jan, Thu	Ratio, Proportion and Variation	
11 Jan, Fri	Quadratic Equations, Logarithm	Test -13 (Apti)
12 Jan, Sat	Permutation and Combination, Probability	
13 Jan, Sun		
14 Jan, Mon	Grand Revision - 1	
15 Jan, Tue		
16 Jan, Wed		
17 Jan, Thu		
18 Jan, Fri		
19 Jan, Sat	VirtualGATE-1	
20 Jan, Sun		
21 Jan, Mon	Grand Revision - 2	
22 Jan, Tue		
23 Jan, Wed		
24 Jan, Thu		
25 Jan, Fri		
26 Jan, Sat		
27 Jan, Sun		
28 Jan, Mon		
29 Jan, Tue	VirtualGATE-2	
30 Jan, Wed		
31 Jan, Thu		

NOTE: This is a copyright protected document. However, you are free to share with due credit.