

CUSTOMIZED TEST SERIES					
GATE 2019 SCHEDULE: COMPUTER SCIENCE & INFORMATION TECHNOLOGY					
Test Date	Test Type	Syllabus [EB-Engineering Branch ; EM-Engineering Mathematics; GA-General Aptitude]	No. of Question	Marks	Duration
01/07/2018	Minor Test - 1	EB-Digital Logic: Logic functions, Minimization, Design and synthesis of combinational and sequential circuits, Number representation and computer arithmetic (fixed and floating point).	33	50	90 min
08/07/2018	Minor Test - 2	EB- Computer Organization and Architecture Part-I: Machine instructions and addressing modes. ALU, data-path and control unit.	33	50	90 min
15/07/2018	Minor Test - 3	EM- Linear Algebra: Matrices, determinants, system of linear equations, eigenvalues and eigenvectors, LU decomposition. Set Theory & Algebra: Sets; Relations; Functions; Groups; Partial Orders; Lattice.	33	50	90 min
22/07/2018	Minor Test - 4	EB- Computer Organization and Architecture Part-II: Instruction pipelining. Memory hierarchy:cache, main memory and secondary storage; I/O interface (interrupt and DMA mode).	33	50	90 min
29/07/2018	Minor Test - 5	EB- Programming and Data Structures: Programming in C. Recursion. Arrays, stacks, queues, linked lists, trees, binary search trees, binary heaps, graphs.	33	50	90 min
05/08/2018	Minor Test - 6	GA: General Aptitude(Language and Analytical Skills)	33	50	90 min
12/08/2018	Minor Test - 7	EB-Algorithms: Searching, sorting, hashing. Asymptotic worst case time and space complexity. Algorithm design techniques: greedy, dynamic programming and divide-and-conquer. Graph search, minimum spanning trees, shortest paths.	33	50	90 min
19/08/2018	Minor Test - 8	EB- Theory of Computation: Regular expressions and finite automata. Context-free grammars and push-down automata. Regular and context-free languages, pumping lemma. Turing machines and undecidability.	33	50	90 min
26/08/2018	Minor Test - 9	EM - Calculus: Limits, continuity and differentiability. Maxima and minima. Mean value theorem. Integration.	33	50	90 min
02/09/2018	Minor Test - 10	EB-Compiler Design: Lexical analysis, parsing, syntax-directed translation. Runtime environments. Intermediate code generation.	33	50	90 min

09/09/2018	Minor Test -11	EB-Operating System Part-I: Processes, threads, inter-process communication, concurrency and synchronization, Deadlock, CPU scheduling	33	50	90 min
16/09/2018	Minor Test - 12	GA: General Aptitude(Language and Analytical Skills)	33	50	90 min
23/09/2018	Minor Test - 13	EB-Operating System Part-II: Memory management and virtual memory, File systems.	33	50	90 min
30/09/2018	Minor Test -14	EB- Databases Part-I: ER-model. Relational model: relational algebra, tuple calculus, SQL.	33	50	90 min
07/10/2018	Minor Test - 15	EM- Mathematical Logic: Propositional Logic; First Order Logic. Graph Theory: Connectivity;; Matching; Colouring. Combinatory: Counting; Generating functions; Recurrence relations.	33	50	90 min
14/10/2018	Minor Test - 16	EB- Databases Part-II: Integrity constraints, normal forms. File organization, indexing (e.g., B and B+ trees). Transactions and concurrency control.	33	50	90 min
21/10/2018	Minor Test - 17	EM-Probability: Random variables. Uniform, normal, exponential, poisson and binomial distributions. Mean, median, mode and standard deviation. Conditional probability and Bayes theorem.	33	50	90 min
28/10/2018	Minor Test - 18	EB-Computer Networks Part-I: Concept of layering. LAN technologies (Ethernet). Flow and error control techniques, switching. IPv4/IPv6, routers and routing algorithms (distance vector, link state). TCP/UDP and sockets, congestion control.	33	50	90 min
04/11/2018	Minor Test - 19	EB-Computer Networks Part-II: Application layer protocols (DNS, SMTP, POP, FTP, HTTP). Basics of Wi-Fi. Network security: authentication, basics of public key and private key cryptography, digital signatures and certificates, firewalls.	33	50	90 min
11/11/2018	Minor Test -20	GA: General Aptitude(Language and Analytical Skills)	33	50	90 min

NOTE:

1. The above mentioned Dates are Opening Dates for Tests and each Test is valid till March 2019.

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