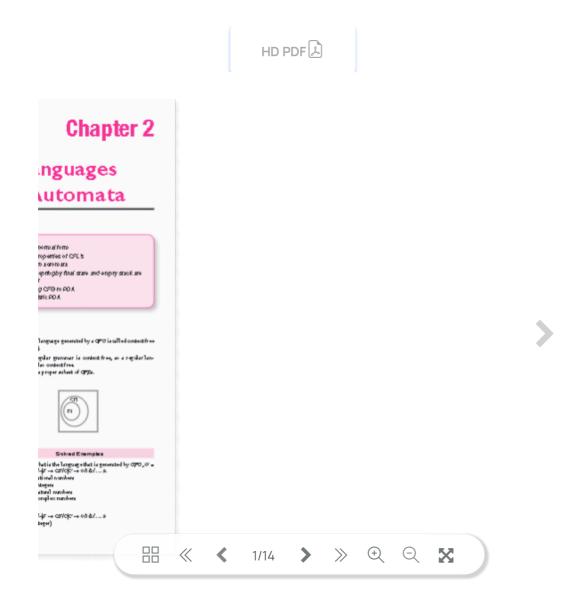**SelfStudys**
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/ 2. Context Free Languages & Push Down Automata

GATE Core Subjects 6 Theory of Computation 2 Context Free Languages & Push Down Automata For CSE - PDF Notes

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GATE CSE Core Subjects Chapter and Topics Name		
S.No	Chapter Names	Topics
1	Digital Logic	1. Boolean algebra 2. Combinational and sequential circuits 3. Minimization 4. Number representations and computer arithmetic (fixed and floating point)
2	Computer Organization and Architecture	1. Machine instructions and addressing modes 2. ALU 3. data? path and control unit 4. Instruction pipelining 5. Memory hierarchy 6. Cache

		7. Main memory and secondary storage 8. I/O interface (interrupt and DMA mode)
3	Programming and Data Structures	1. Programming in C 2. Recursion 3. Arrays 4. Stacks 5. Queues 6. Linked lists 7. Trees 8. Binary search trees 9. Binary heaps 10. Graphs
4	Algorithms	1. Searching 2. Sorting 3. Hashing 4. Asymptotic worst case time and space complexity 5. Algorithm design techniques 6. Greedy 7. Dynamic programming and pide?and?conquer 8. Graph search 9. Minimum spanning trees 10. Shortest paths
5	Theory of Computation	1. Regular expressions and finite automata 2. Context-free grammars and push-down automata

		3. Regular and context-free languages 4. Pumping lemma 5. Turing machines and undecidability
6	Compiler Design	1. Lexical analysis 2. Parsing 3. Syntax-directed translation 4. Runtime environments 5. Intermediate code generation
7	Operating System	1. Processes 2. Threads 3. Inter?process communication 4. Concurrency and synchronization 5. Deadlock 6. CPU scheduling 7. Memory management and virtual memory 8. File systems
8	Databases	1. ER?model 2. Relational model 3. Relational algebra 4. Tuple calculus 5. SQL 6. Integrity constraints 7. Normal forms 8. File organization 9. Indexing (e.g., B and B+ trees)

		10. Transactions and concurrency control
9	Computer Networks	1. Concept of layering 2. LAN technologies (Ethernet) 3. Flow and error control techniques 4. Switching 5. IPv4/IPv6 6. Routers and routing algorithms (distance vector, link state) 7. TCP/UDP and sockets 8. congestion control 9. Application layer protocols (DNS, SMTP, POP, FTP, HTTP) 10. Basics of Wi-Fi 11. Network security: authentication 12. Basics of public key and private key cryptography 13. Digital signatures and certificates 14. Firewalls

10	Software Engineering & Web Technology	1. HTML 2. Tags 3. Attributes 4. External Linking 5. Hyperlinks 6. Breaks 7. Tables 8. Images and Color 9. Frames 10. CSS 11. XML

GATE Core Subjects 6. Theory of Computation 2 Context Free Languages & Push Down Automata Practice Sets For Entrance Exam

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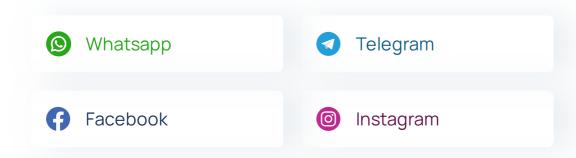
Along with the question we have also given the **Answer Key** and each question has been explained in a very comprehensive manner.

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Gate Computer Science Engineering 6. Theory of Computation 3 Recursively Enumerable Sets & Turing Machines, Decidability	Gate Computer Science Engineering 6. Theory of Computation 4 Test (Theory of Computation)
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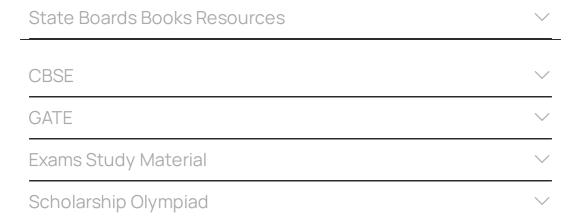| Whatsapp	Telegram
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