

Important topics for GATE-Computer Science-IT Preparation

Computer Organization-CO

- 1. Machine Instructions, Addressing Modes**
- 2. Control Unit Design, IO Interface**
- 3. Instruction Pipelining**
- 4. Memory Organization**

Compiler Design-CD

- 1. Lexical Analysis**
- 2. Parsing**
- 3. Syntax Directed Translation (SDT)**
- 4. Code Optimization and Other**

Computer Networks-CN

- 1. Introduction, Physical Layer, DLL**
- 2. Network Layer (IP)**
- 3. Transport Layer (TCP, UDP)**
- 4. Upper Layers, Network Security**

Database management systems-DBMS

- 1. ER Model**
- 2. Functional Dependencies and Normalization**
- 3. SQL**
- 4. Relational Algebra and Calculus**
- 5. Transactions and Concurrency Control**
- 6. File Structures and Indexing**

Operating System-OS

- 1. CPU Scheduling**
- 2. Dead Locks**
- 3. Process Synchronization**
- 4. Process Management**

5. Memory Management

6. Virtual Memory

7. File & Disk Management

Theory of computation-TOC

1. Regular Language and F.A

2. CFL and PDA

3. CSL, REC, RE and TM

4. Undecidability and NP – Completeness

Data Structure & Algorithm

Data — data types, abstract data types, data structures (arrays and links), classes, APIs, collections, OOP.

Algorithms — Algorithmic patterns and paradigms (recursion, backtracking, search, etc.), complexity analysis.

Digital Logic-Digital Electronics

Number system, Logic gates, sequential & combinational circuits, ADC, DAC

- ✓ GATE Computer Science-IT Classroom coaching
- ✓ GATE Computer Science-IT Postal coaching
- ✓ GATE Computer Science-IT Crash Course coaching
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