LOGIC == 3 days P&C == 3

Probability == 3 graph theory == 3

PART 2

TOC==10 days

(I) DFA, NFA, E-NFA, mealey-moore and their conversion, conversion NFA to DFA, minimization of DFA == 3

(II) CFG, PDA, CNF, GNF == 2 days

(III) TM, properties of TM, power of all machines, chomsky, halting problem == 2

(IV) countability, closure properties, Decidability, rice theorem == 3

### PART3

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D/S == 7.5

(I) array, pointers = 2.5

(II) tree, bst, avl = 3

(III) stack, Queue, link list == 2

Algorithm == 14

(I) complexities, master theorem == 2

(II) sorting = 2

(III) Divide and conquer = 2

(IV) heap == 1.5

(V) Greedy == 2

(VI) Dynamic Prog. == 1.5

(VII) Graph, Hashing == 3

### PART 4

OS = = 8.5

(I) scheduling == 1.5

(II) synchronization == 2.5

(III) deadlock == 0.5

(IV) memory management == 2

(V) File management, fork, threads = 2

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N/W == 14
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- (I) IP addressing ,dealys (tt,tp, etc) == 2
- (II) Overview of OSI=1
- (III) flow control (stop/wait, GBN, SR) = 1
- (IV) Data link layer (CSMA/CD, CSMA/CA, framing, LAN, ethernet, CRC....) = 3 (token ring is not needed)
- (V) Rest of others (flow control, access control, error control {hamming distance code}) == 2
- (VI) Network layer IPV4 header, fragmentation, protocols at NL, routing == 2
- (VII) Transport layer (TCP,UDP,congestion control) == 2
- (VIII) hardware devices, Application layer == 1.5
- (IX) IPV6, security == 1.5

#### PART 5

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- (I) basics, ER == 1.5
- (II) Normalization == 2.5
- (III) SQl == 1.5
- (IV) Relational Algebra , TRC == 2 (Dont read DRC)
- (V) serialization == 2.5
- (VI) B-tree == 2

- (I) basic == 1
- (II) Address modes == 1
- (III) pipelinning == 2
- (IV) Caching == 2
- (v) I/O == 1.5
- (VI) hard disk == 0.5

# PART 6

compiler == 5.5

- (I) Lexical, Parsing == 3
- (II) semantic == 1.5
- (III) Run Environment == 1 ( Don't read code optimization)

DE == 8

- (I) Number system == 1.5
- (II) Adder == 1.5
- (IV) Combinational circuit = 2
- (IV) sequential circuit == 3.5
- (V) IEEE floating point, Booth's algo = 1

# PART 7

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Linear Algebra == 4 Calculus == 2