PART 1

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LOGIC == 3 days
P&C  == 3
Probability  == 3
graph theory == 3

PART 2

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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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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

N/W == 14
(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 4

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DBMS == 12
(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

COA == 8
(I) basic == 1
(II) Address modes == 1
(III) pipelinning == 2
(IV) Caching == 2
(v) I/O == 1.5
(VI) hard disk == 0.5

PART 5

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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 6

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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