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

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 $=2$

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 5

DBMS == 12
(I) basics, ER == 1.5
(II) Normalization $==2.5$
(III) $\mathrm{SQl}==1.5$
(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 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

Linear Algebra $==4$
Calculus == 2

