Selection for Discrete Preparation -) Pegion hobe principle Unit-I of Truth-table A Proof Using Inference rules > Industrom Contradition VI7, A proff by Contrapositore. -) Prof by relation solution V-) Recurrence - Combination > fermutation > Principle of Inclusion & Exclusion

Unit-2 of Relation -) Properties of Relation -) closure -) Reflaxive Clesure -) Symmetri 11 -) Transitive 11 -) Representation of Relation by Matrix MO MR=MR theorem -) Prop Prove of Equivalence relation 7 Definition of Equivalence Class. -) Prost of Partial order relation 7 Define Poset) Hars diagram of leels 9 geb -) Maximal 9 Minimal -) Greatest elements et a Poset. -) Probleme Using Warsal Algorithms.

Graph -) Define -) Complete Crapy - 1 K-regular 11 9 Br-partite 1, -) Somple 11
-9 Multi 11 Representation of Grouph by Adjacency & Incidence Moetrix -) I somerphosms of two Graph -) Connected, path, corouit of -) Euler Graph, Hamiltonian Crouph -) Tree, spanning free, Minimal Spanning free (Problem)

Three having n vertices

n-1 edges Plannar graphs, Euler-firmula (-e-v+r=2 theoren) of graph Coloring -) Cromatic number 7 11 Polynomval.

Unit-III -) Simigroup -) Define -) Monid 9 Croup } (ab) -1=5 1 a-1
{ (a-1) -1 = a - Theorem Langrange theorem Permulation of Group Homomerphism & Isomerphism Cyclic Group Zn= {0,1,2 -.. n-1 } $a \oplus b = \begin{cases} ath, ath < n \\ ath - n, ath 7, n \end{cases}$ the show that (z_{η}, Θ) is a corresp. 24=30,1,2,33 in a cycloc group then (37 is Generator of * U(V) } What * U(V) } E tought -) Rong -) Integral Domain -) field.