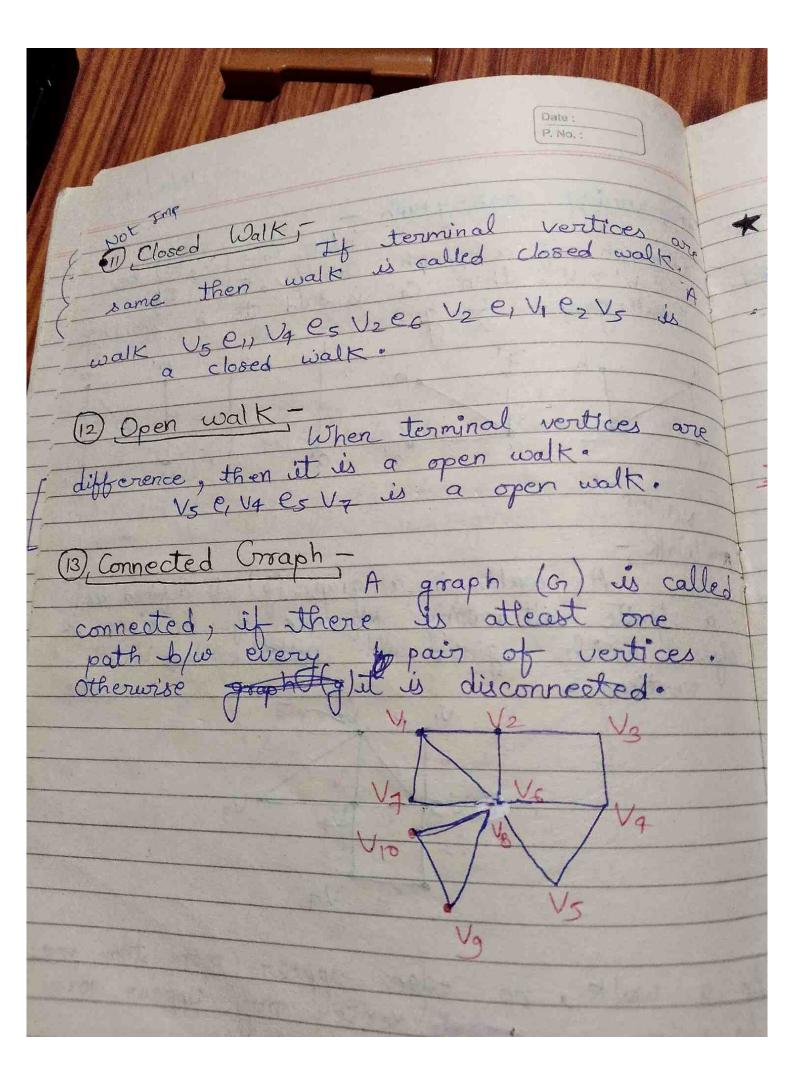
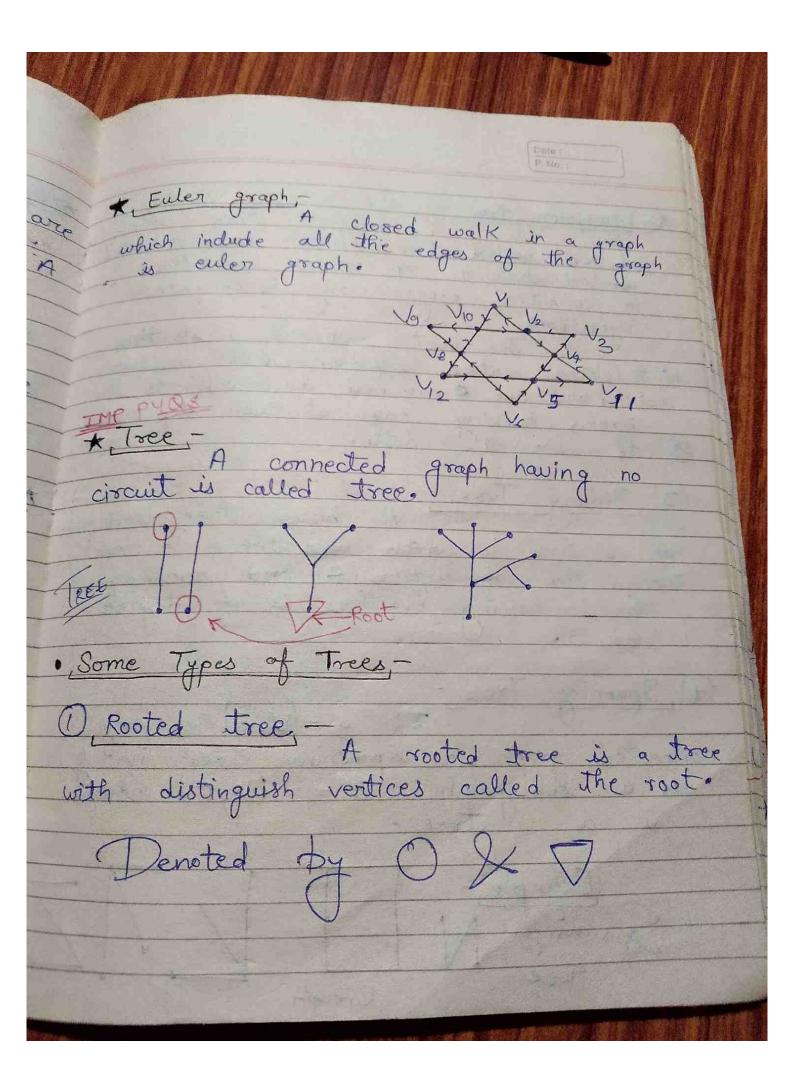
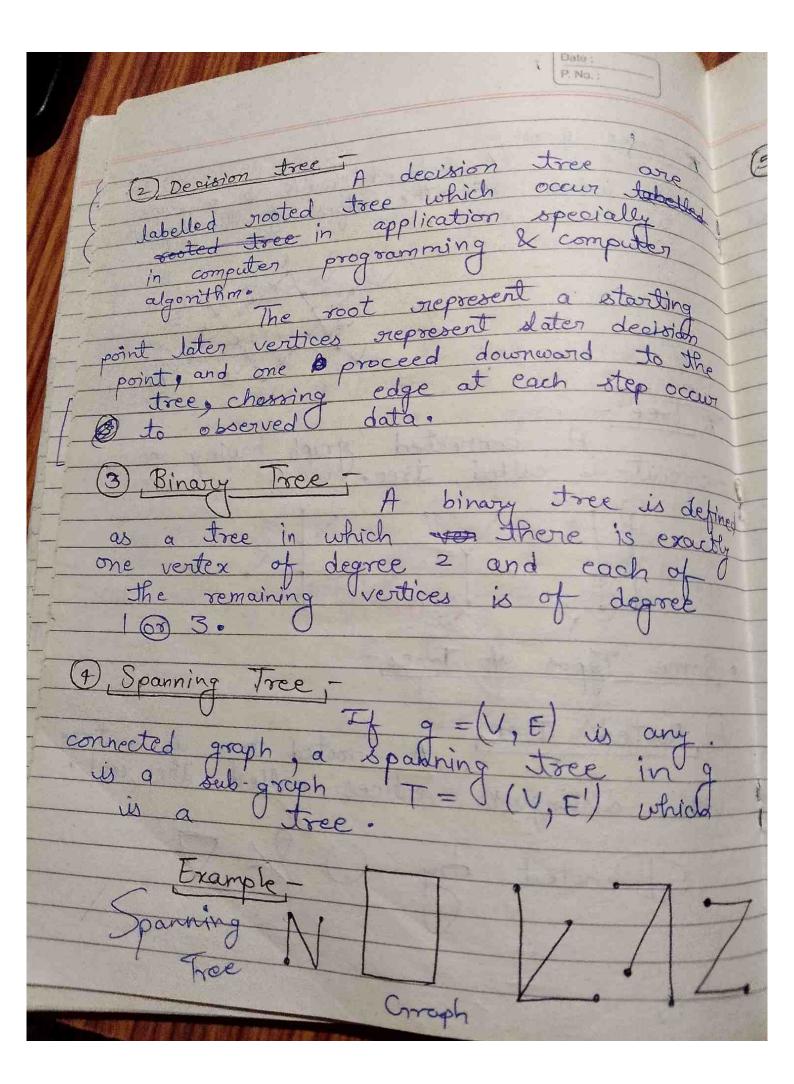
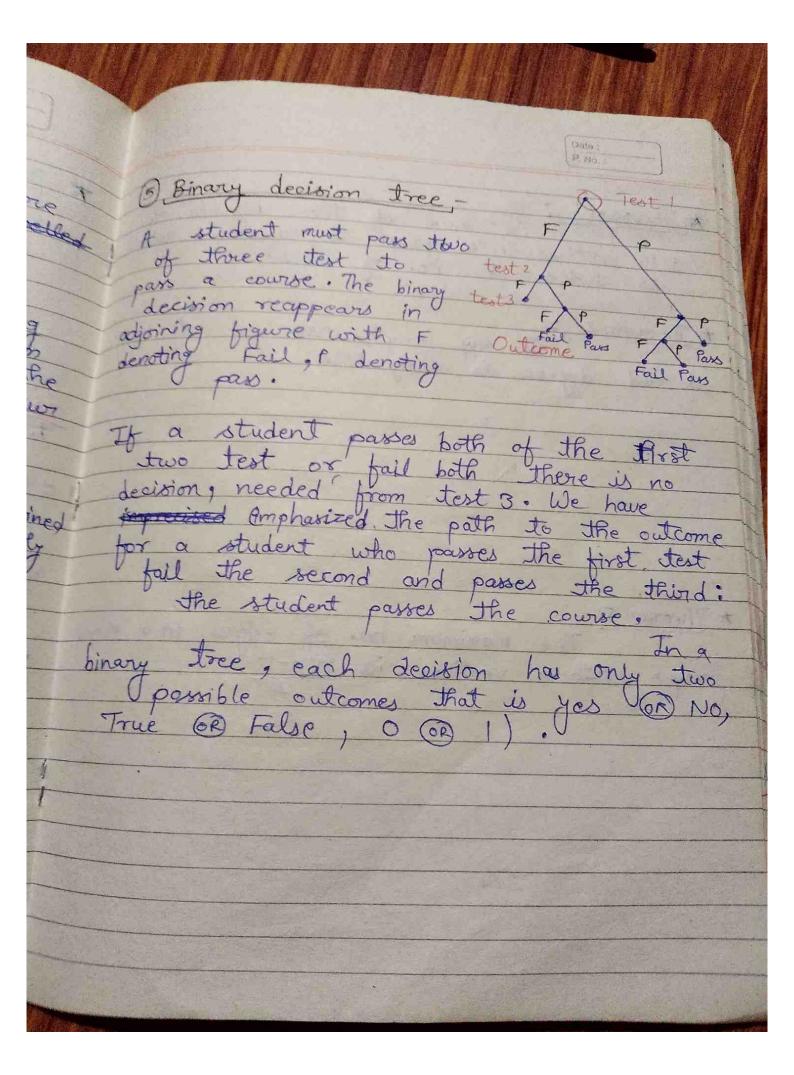


12/01/23 sub-graph - Let G'= (V', E') to Not Imp *10, Walk a finite atternating sequence of vertices & Va In a walk, no edge appear more than one however, a vertice vertex may appear more than once. L, V, e, V2 C6 V2 C10 V3 C5 V4 C8 V7 walk.

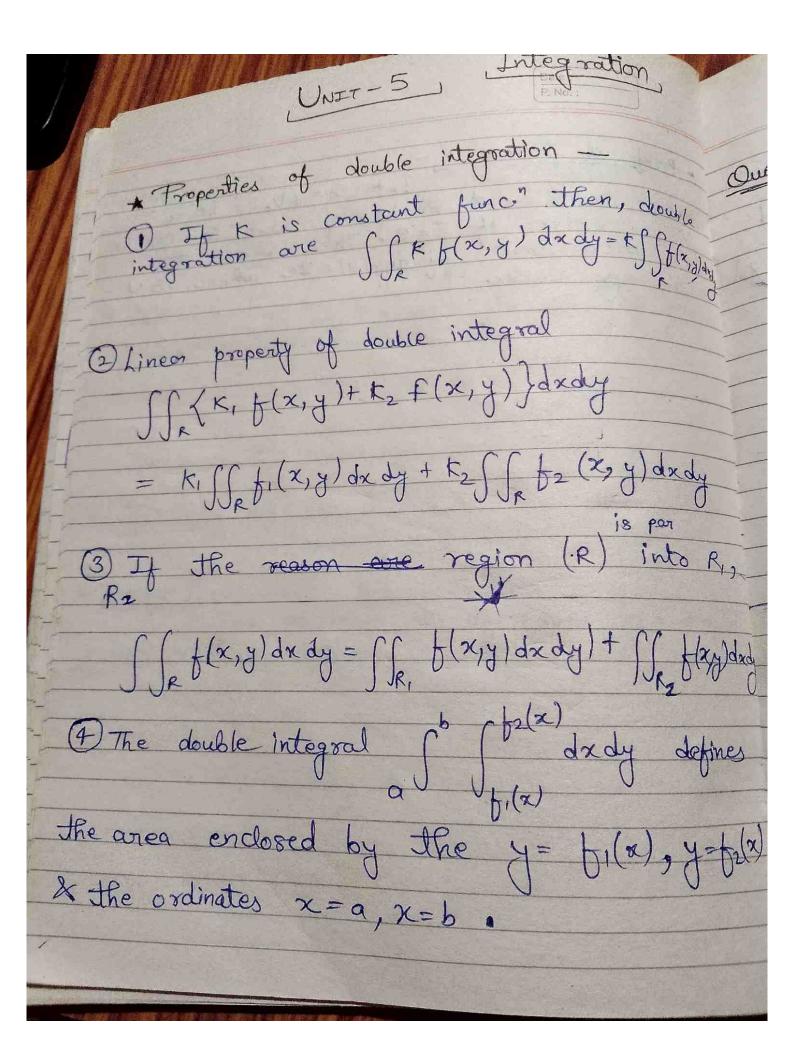








P. No. Theorem : The sum of the degrees of all vertices in a graph is equal to equal to to to to twice the no. of edges. of odd degree is always even. * Theoram 5: The maximum no. o with n vertices is no edges in a simple



(CNF) & (CNF) Date 20/01/22 Involution law - (a') = a * pemorgan's law - (a+b)' = a'b'* (a+b)' = a'+b'* In the Boolean Algebra, prove the following. $a \cdot b \Rightarrow a \cdot b' = 0 \Rightarrow a, b \in B$ $a \cdot b + b \cdot c + c \cdot a = (a+b)(b+c)(c+a)$ An expression obtained by the application of binary operations '+' k ' and a uniary operation (') on the finite number of elements of bodean - algebra (B+,') is called Boolean function (B) polynomial. * Minimal Boolean function, - A minimal boolean funct is (n) variable $\chi_1, \chi_2, \chi_3, --- \chi_n$ is product of (n) letters. * Disjunctive normal form (DNF), which can be written or sum of the minimal boolean function called disjuntive normal form (or consomial form) fory = xy + x'y + xy' + x'y'

2 mai comy * Conjuctive Normal form TA boolean polynomial * Conjuctive

* Conjuctive

(or dual canonical form) from of like it is called a CNF (or dual canonical form) form)

is called a CNF (or dual canonical form) where it is the product of distinct fractors where it is the product of the sum of variousles xyxxx cach fractor is the xyxxx and their complements and their fractor variables or their complements each fractor variables or than once do not occur more than once b(x1, x2) = (x1+x2) (x, +x2)(x1+x2) Disjunctive (DNF) Ex- Write the following func." Into conjudiable normal from, in which maximum number of variable are used. $(i) f(x, y, z) = x \cdot y' + xz + xy$

