	중심 그렇지 않는 것이 없는 것이 없는 것이 없는 것이 없다.	Page No.
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onglorina di kontribili ancona di conformazione di 27 di Giangenia di discola endica di mala di Mala di Banda di Antoni	GRAPH THEORY	
consuper organical appropriation and be individual	MC - 405	
	CLASS TEST-2	
	AIMAN SIDDIQUA - 2KI8/MC/008	
(1)	According to theorem, S. clivi) = 2xe where d(vi) = degree of vertex e = No. of edges.	V ₁ ·
	Let us suppose there is a tree containing of deg 1, two vertices of deg 2, 3 ver deg 3 n vertices of deg n. $ \Sigma d(vi) = 1*1 + 2*2 + 3*3 + + \Sigma d(vi) = n(n+1)(2n+1) \longrightarrow (i-1)$	none vertex
	(Sum of squares of natural number According to property a tree containing contains (n-1) edges.	
	contains $(n-1)$ edges. $2*e = 2*(n-1) \longrightarrow iii$	
	from (i) and (ii) $\Xi d(vi) \neq 2xe$	
	Hence no such tree exists.	

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	3. Let us consider a tree containing n vertices.
	for minimum height the binary tree should be
	a condition the life plant of a second of laws
_	be completely filled except possibly the Cast level.
	O contraction of the second of
	5 6 6
	0 0
	Since there are I vertex in level 0, 2 vertex
	in level 1, 4 vertex in level 3 and so on
	(previers of 2)
	When there are n vertices height will be:
	[log_(n+1)-1]
	Proof 1+2+22+2h=n
	$2^{h+1}-1=n$
	2-1 Parelle Brahad de la como
	$2^{h+1}-1=n$
	2ht1 = nt1
	$h+1 = \log_2(n+1)$ $h = \lceil \log_2(n+1) - 1 \rceil$
10.00	$h = \left[\log_2(n+1) - 1\right]$
-	For maximum height each child should have 2 children and only one of those should of further children
	and only one of those should of frether chileren
-	

Page No. Date: Tree can be constructed like has 12-1 height n=K= suppose Let-s add node in such a me will For n= K+1 matrix D 0 0 01 Scanned with CamScanner