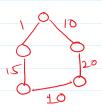
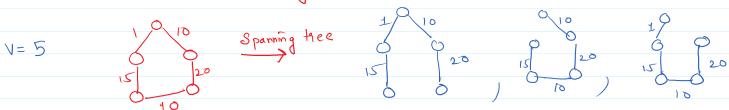
MST using Kruskal Algo (disjoint set)

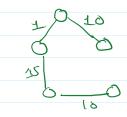
MST: - Minimum Spanning tree Tree - connected & (v-1)





No of Spanning tree = 501 = Total 5

Minimum cost => min edge weight sum >



cost = 1+10+15 +10

We have 2 Algo

5 Kouskal Algo -> (Work on Disjoint set)

ii) Froms Algo -> (Reap)

Providy Duene -> (heap)

Disjoint Set: - Sets that have nothing common DS.

 $S_{1} = \{1, 3, 5\}$

S2 = \$ 2, 4, 63

·16 S1 OS2 = 0 (empty)

then S, and Sz are DugointSet

He can to two operation on Disjoint Sets.

n is an element

(i) Int (n)
(li) Union (n1, n2)

(n) bnd (n)

we will use pasent array for Disjoint a set

pasent array 1 2 3 4 5. Rank [0 0 0 0 0 7

