(91) Minimum Sperming tree is subset of edges of connected edge weighted undirected graph that corrects all the vertices together willout any eyels & with the minimum possible total edge weighted.

in Consider in atations are to be kinked using a communication network & lying of communication kink b/w any two atations involves cost. The ideal about would be to extract a subgraph toroned as minour cost spanning time.

(ii) Suppose you want to construct highway or reilroad spanning several idea then we can use concept of minumen spanning tree.

(111) Designing LAN

(1V) Tying Ripelines connecting offshore drilling sites, refineries & consumer markets

(V) Suppose you meant to apply a set of houses with >

-> Electric power -> Water -> Telephone lines -> Sewage lines

(29) Prim's Algorithm >
Time (orplexity: 0(161 log (VI))
Space (orplexity: 0(VI))

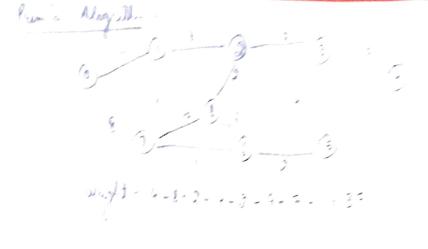
Kruskal's Algorithm ?

Time Conflicity - O(161 log IVI)

Spece Conflicity - O(1VI)

Dijkstra a Algorithm -Time Conflinity - QV3 Spece Complexity - O(V2) Bellman Ford's Algorithm -Time Complexity - O(VE) Space Complexity. O(E) Q3) 14 Kruskal's Algorithm 8 2 3 5 3 3

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