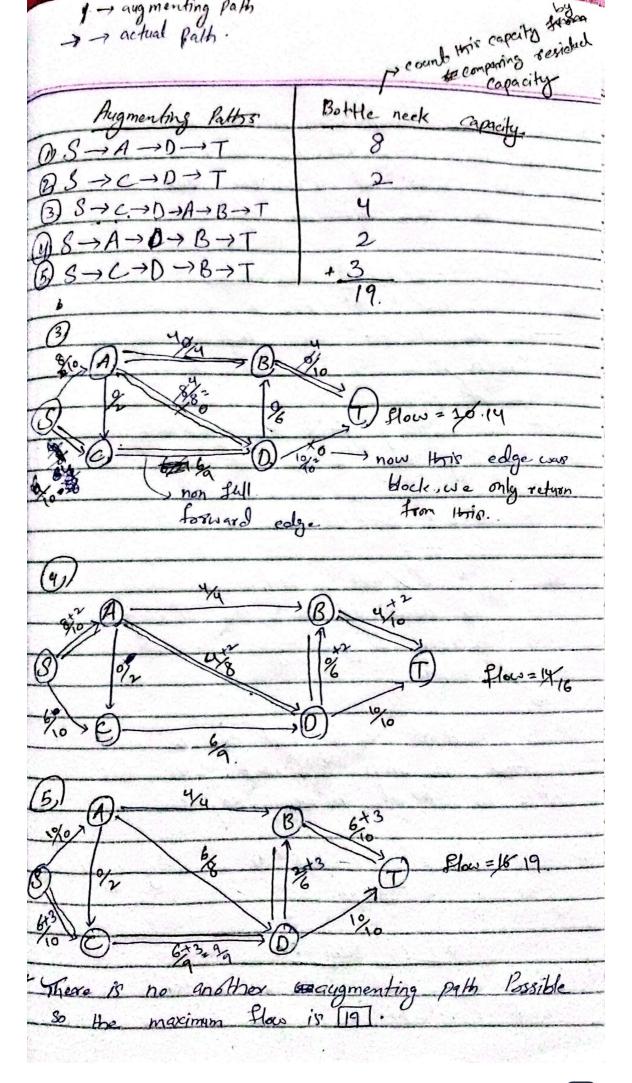
Ford Fulkerson Algorithm for Maximum Plon Roblem Problem Esiven a graph which sepresents there every edge has a capacity. Also given for vertices source & from and Sink It the graph. Find out the maximum possible A) (a) Flow on an edge doern't exceed the given In flow it equal to outflow for every Source = (A) E. Termitogies Used in Algoritim \* Residual Graph - It's graph which indicates additional possible Plan. If there is such all from source to shik then there \* Residual Capacity, - It's oxiginal capacity

Some be edge minus flow.

11-9 = [2] -> Residual capacity

which decides Source to sink Hongh an augmented Path. Paths - Augmenting path can Non-full tonsand edges Non-empty backward → C → D → F & Augmenting path. miltom Solve Steps Fulkerson Myssithm intial flow ar "O" Add two path flow to Cuntil no augmenting paths remains from Stot 3) Return flas Problem glas initially 7 Source 1/2 0/1000 there add How at 16 residual capacity 299-



How residual graph, with its backward edges; is what makes the Ford-Fulkerson algorithm sobust and guaranteen that it will find the true maximum flows.

