Mone, Jonmally a graph is said to be trusted if here
Atleast one path betwood eveny pain of vertices in G.

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Atleast one path there

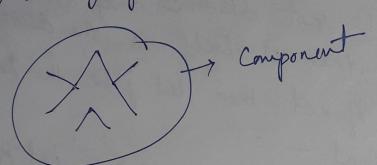
A disconnected graph

These

Consists of two one more connected graphs each of these

Consists of two one more connected a Component.

Connected Sub-graph is called a Component.



Theonem: — A graph G is disconnected iff its vertices V

can be partitioned into two non-empty disjoint subset V, f V2

such that there exists no edge in G which one end ventex is in

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Prof. Suppose that such a partition exists. Consider two antifary ventices a, b & q, such that a & VI & b & V.

No path Can exists exists betwee Ventices a & b. otherwise there would be at least one edge whose one end ventex