Unit-4 Graph Theory: L18 16 Mar 2022 16 March 2022 10:04 A glaph G= G(V,E) Convisis of no sels i) V (+ p), the set of vertices. i) E, the set of edges. (may or may not empty set) V= 8 2, 223 G=G(V,E) G=G(VIE) Two vertices are 8.1.6 adjacent vertices of there exists on edge 6/4 herm. u, and uz are adjacent vedices 4, and 2/2 are not adjacent

If e, is an edge 6/2 re, and v2 then V, and V2 are called the end joints

Multiple edges of Multi edges :-

Multiple edges of Multi edges :-Two or more edges b/x to game end points are called multi edges. eg is a loop e, e, ez au called multiedges 12 Multi graph Thy exade, are also multi-edges of in An edges whose end points is he gase veilex. Finite Geath: Infinite graph La A graph in which the no. of vertices are finile A graph in nich infinite no. 9 voolies au rau Multi Geaph Sindle geable A gush such Consists of either the multiple edges of looks are called A gust which is I see from multiple edges and looks Gelfed Single graph Multi gerph. Graph means multigraph undiseived gabl Disciled Gush

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