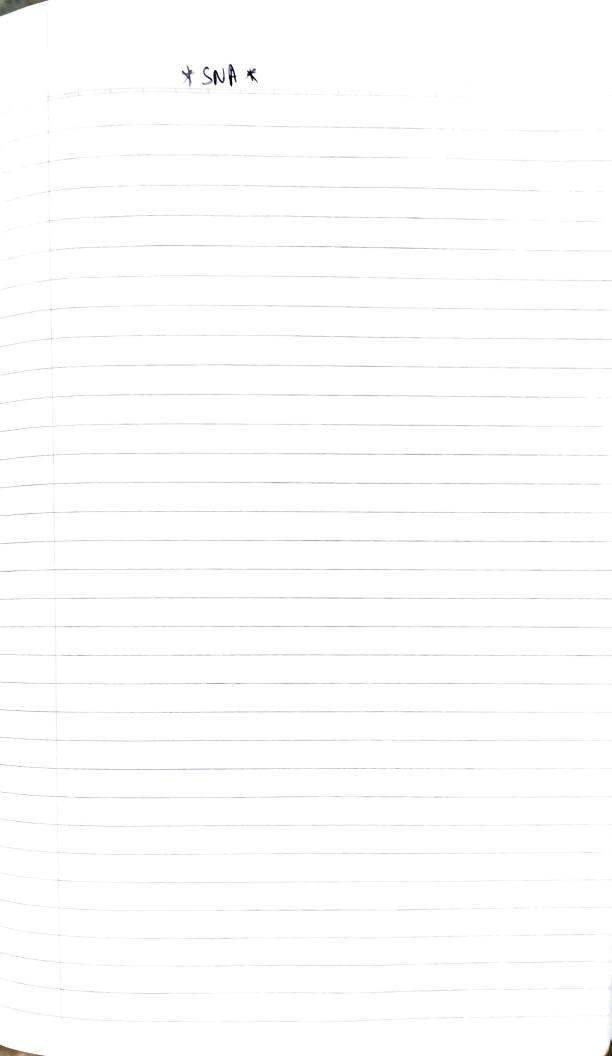
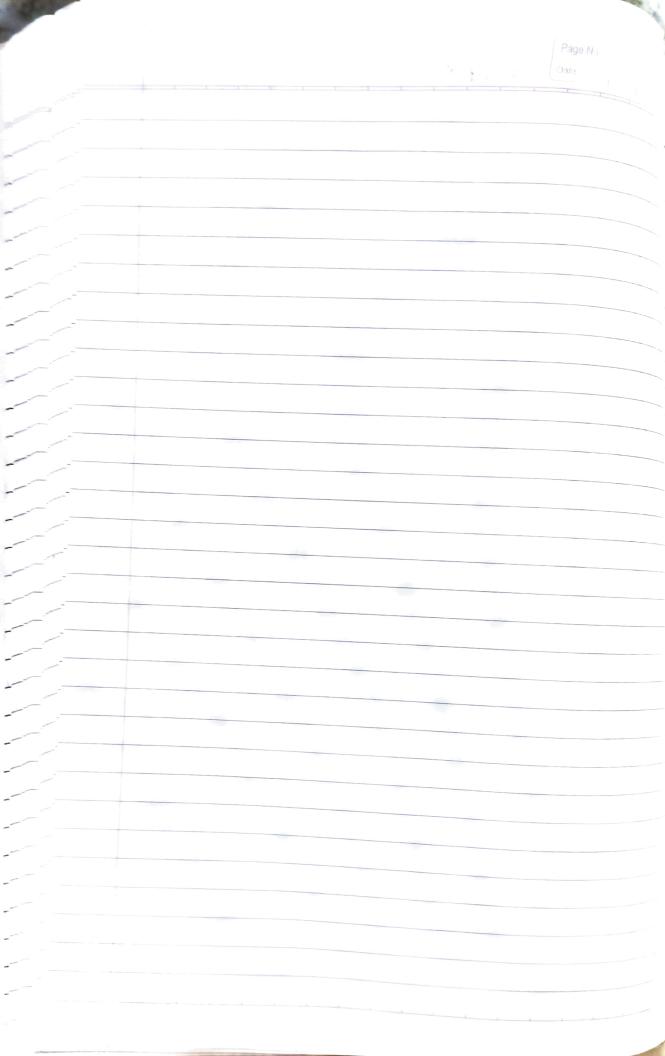
Paper-III 13/2/22 * Social Notwork Analysis (SNA) => SNA- D The Study of Social retwork con by using graph theory. Difference between conventional data & Social network data. Conventional data Social network data talentar - 2 - Darray Relationship galation Alan

* SNA practicals 2- practicals for 20 marks total 40 mary => Tools > install igraph: Gode - Proctical-1 library (igraph) g= graph formula (A-B, A-C, A-D, B-C, B-D, C-D) 92=9raph. formula (A++B,A+-C,A-+D,D-+A, B++D) no dedges & e count (g1) e count (g2) no. of vertices Vount (g1) V Court (g2) get. adjaroncy (g1) plot (g1) plot (g2) degree (g2, mode="in") degree (g2, mode="out")

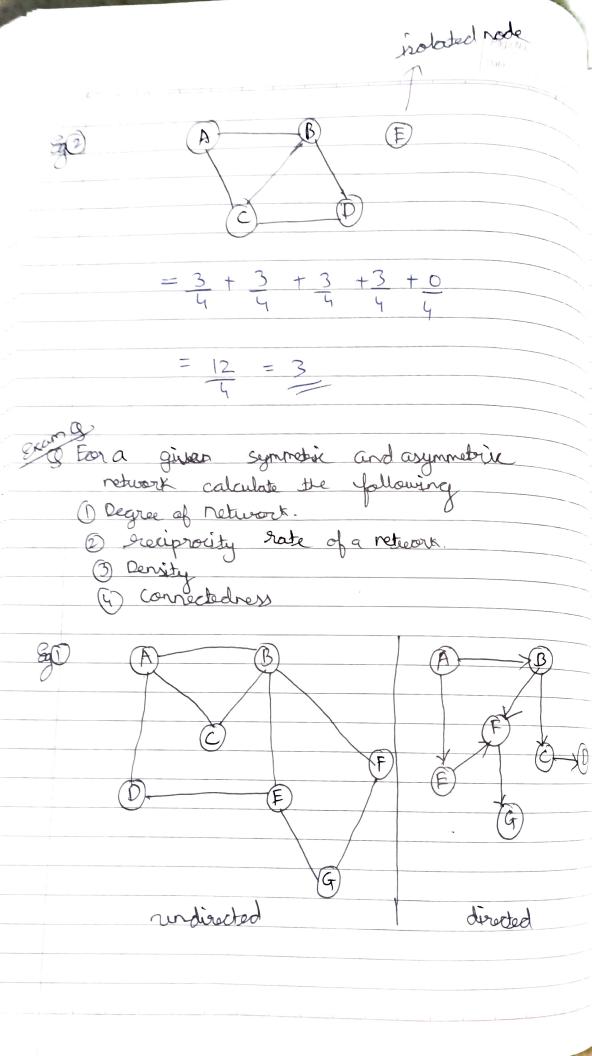




001/23 * SNA * * Competness: D'for the given retwork average connectivity correctness show the for individual node DI differ from density of retwork as density of retwork shows average connectivity of entire retwork while connectivity of entire retwork while at a time and then calculate submission of each and every rades correctivity. directed graph (Asymmetric) no of corrected rodes

to ni

1-1 notere n= 10. of nodes. => Two nodes are said to be conveded if there exist path between trese two nodes 4 + 4 + 4 + 4 + 4 = 5 n-1=5-1=4



(In exam write formula & solve) undirected directed A = 3 A=0+2=2 Jogra B= 4 B= 1+2=3 C = 2 (= 1+1=2 D= 2 D= 1+0=1 E = 3 E=1+1=2 F = 2 F = 2 + 1 = 3G=2 G = 1+0 = 1 enciperity density = ("rundirected") (directed) density = 7 7x7-1 (no.q) = 7 (no.q) = 7x4= <u>4</u> 7x(7-1) = 1 -9 = 3= 0.1667 = 0.428 Reciprocity (directed graph (Asymmetric)) periprocity = Total no. of existing reciprocity relation rate total. no. of possible reciprocity relation (no. of peredge) 三 0 = 0

Connectedress (undirected) (directed) = 7 2.33

*SNA * bractical-02 Connecting a data into one or more needs Code: - R Software not R studio => library (igraph) => their code