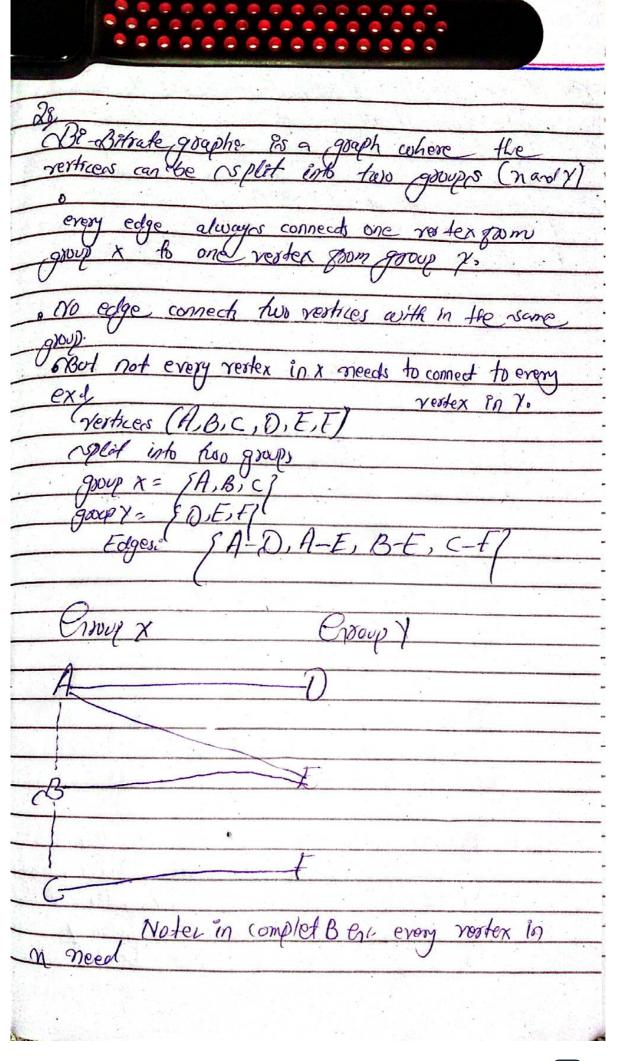
| = 14 A graph is connected if there is a work.   |
|---|
| blus every pais of distinct verticers in the  |
| 1959h   |
| 0 01  |
| for graph 80 connected of you can travel (welk) from any restex to any other vertex by following the Jedges.  |
| food any restex to any other vertex by following  |
|   |
| exe.  |
| 9-B-c-€   |
|   |
| 15 A roubgoaph Pro Just a remaller graph  |
| Aken- From a Cofgger graph  |
|   |
| (6) Order of a Graphs Pro Bingly the number   |
| of vertices (also called modes) of contains.  |
| Notation (n)  |
| (Notation (M)  (1) Vize of a graphs  (he rize of a graph is the   |
| the reize of a graph is the   |
| number of edges et contains.  |
| 18, A graph with a finite number of restrict  |
| as well as a Sinite number of edges   |
| in called a finite graph.   |
|   |
| 7/9 Poselled egliges. The edges connecting the name paid  |
| of gestice are called Mustiple (leoles or parallet  |
| adea.   |
| ex-   |
|   |
| loc leu   |
| Contract of the second of the |
| ***   |
| 18.0 ( C  |
|   |
|   |
|   |

| 20, Prolested yestexe A vertex having no incident  | _      |
|--|--------|
| edge is called an isolated Greater.  | _      |
|  | -      |
| 21 Averten of degree I, is called a pendent verte  | *      |
| or an end revten   | _      |
|  | -      |
| 2) Internal yertexe of yestex which is neithe a  | _      |
| Deadart wester mor an isolated yester, in could  | _      |
| a internal vertex or an intermolate vertex.  |        |
| State of the state | _      |
| 23 Degree reguence & is a lest of the degree   | 25     |
| TO O OYANA I IIA   |        |
| At a vertex to simply the  |        |
| to IT. HOOGREE OSES IS THE   | 1      |
| and in the order barn largest to smaller 1 to complete 1 t | 7      |
| 2 - 1 2 - 100 vi) has dela 73 has 3,14 has 1 v3 - 7  | -      |
| of the vertice are 3.112. I so Ar degree sey us  | er     |
| The formal acceptance is a list of numbers (1995)  | =      |
| 11.1 as represent the degree asea of a single  |        |
| -> Not every osequene of a number is a graphical seaf. There are how   | 0      |
| that graphical seal must pollow.   | -      |
| a till have must be an even 110mos   | 67     |
| a Na momber in the used can be larger man the 101  | a l    |
| 25, reighborshood of a rester. number of restrices   | -      |
| minus one  |        |
| for emander Section (3,3,2,1,1)  | -      |
| 1 2+3+2+1+1=10 sum of the degree even.   |        |
| 2 Ps any number larger than the number   |        |
| no vertical minus one?   |        |
| the cargest number is 30 which is len than 5-1=1   | 11     |
| the cargest number is 30 which is len than 5-1=1   | 4      |
| Yes.   |        |
|  | Sec. 5 |

-) can we do aw a graph by 813 Yes we can draw with s vertices where are two vertices have a degree of 3 and one a and have a degree of 3 and one a and two 2. There for it is goophreal seas. Spanning asubgraphus, that includes restre EXP 8 sub grap A-R->C->D Enduced subgraphise. 14 18 5 special type of Adomthe 6ig goaph restices 6/w original graph. other woods Nome induced subgay NU 69saphe the is automatraley by falking all the connece in the en/-A BICOD vertices we induced Subgraph will be

the set > Neighborhood of vertexe connected clivec fly called cringle rertices neighbortso we just preked [A,B,C], But only that would belo subgraph. we take [A,B, C] indued graph exage 67 (V4) es 17,17, 73, 74, 75, 76 present are





| (29) Regules 980phise | A graph       | B Ps regard to be               |
|-----------------------|---------------|---------------------------------|
| regular (graph if     | all the re    | officers have the name          |
| degree                |               |                                 |
| U                     |               |                                 |
| De Promaphic area     | hoo Pus 90    | 1 after looking some proportion |
| to de different de    | but in action | 1 attes looking some proportion |
| No War will also      | on to in      | mohim gollaring aph.            |
| then they will the    | na be         | Jet 1                           |
| 0.50                  |               |                                 |
| 6V5-                  |               | G,                              |
| - Gi                  |               | X. XX                           |
| 46                    | 96            | * O                             |
|                       |               |                                 |
|                       |               |                                 |
|                       | -             |                                 |
|                       |               | ž w                             |
| e                     |               |                                 |
| nstep1 - check no o   | P vertex.     |                                 |
| ery = 4 rer           | <i>lex</i>    |                                 |
| C12= 4 201            | tex medal     | both have equal                 |
|                       |               |                                 |
| repa: check no        | of colgesis   | 25                              |
|                       | 0. 0          |                                 |
| asteple Degree ase    | ·v            |                                 |
| Pare                  | 9=3 6=3 (     | sed des                         |
|                       | 3,3,2,2.      |                                 |
| (2)                   |               |                                 |
| ostep4 Mapping of     | rester        | After dong this check           |
|                       | n             | weather is ther any edge        |
| $\frac{a=n}{b=z}$     | y             | blus a andle, Yes, so it        |
| C = W                 | Z             | mul ha                          |
| d=)                   | W             | must be in n anoly.             |
| q=/                   |               | does edge present?              |
|                       |               |                                 |