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	Name: Fairgan Nodern	
	Roll no: 002	
The second secon		
	Program: BSSE	
	Δ .	
-	Assignment #3	
	, u	
	Degree Dequence,	
V	N r. al	
	Question 36:	
	Find the degree of sequences for each of the	
	graph in Exercise 21-25	-
	1 Mademan 18 Mi Calabo C and a contraction	
	Exercise 21: 4, 1, 1, 1, 1	
	·	
	P. 1. 1000. 3377.7	
	Exercise 27: 3, 3, 2, 2, 2	
	Exercise 23: 4,3,3,2,2,2	
	E reraise 24: 4, 4, 2, 2, 2, 2	
	Cition 2	-
	(2 2 3 1.1	
	E rerise 25: 3, 3, 3, 3, 2, 2	
	Question 37:	141
	Question 31: Find the degree sequence of each of the	
	June watcher	
	Johnsing grapho.	
(d)	K4	

Ky has 4 vertices and much to be an edge between every pair of vertices. The graph is given below. The degree of vertex is the number of retrev aft to transact to the vertex deg (A): 3 deg (B). 3 dy (b). 3 dig (D): 3 The degree sequence is the nonincreating sequence of the degrees of the vertices. Degree sequence. 3, 3, 3, 3 C4 has & 4 vertices A,B,C,D where A and B are connected, B and C are connected,

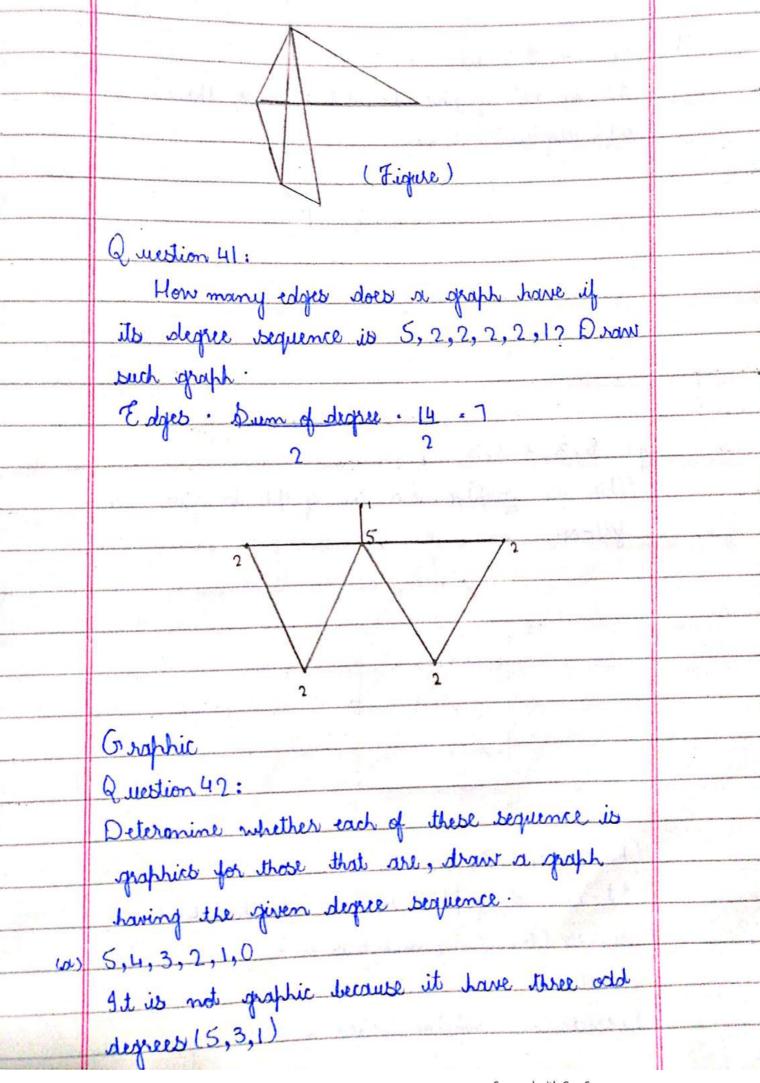
Control of the Control		
	C and D are connected, and D and A	
	The graph is given below	
	The degree of vertex it is the number of edges that connect to the vertex.	
	deg(A). 2	
	deg (B). 2	
	deg (c) = 2	-
	deg (D)= 2	
	The degree sequence is the nonincreasing	
	sequence of the vertices.	
	Degree seguence: 2,2,2,2	
	Proceedings of the control of the co	
	- Salaka A damak ya kwa upaga.	
	Exercise Compared Corporation	
	AB	
(4)	Wu	
(C)	Wy is the graph of C4 in part (b) to	
	which a vertex of sales and this	1
	vertex is connected with all other vertices	
	WHILL IS INTUINE AND GOOD VOULD	

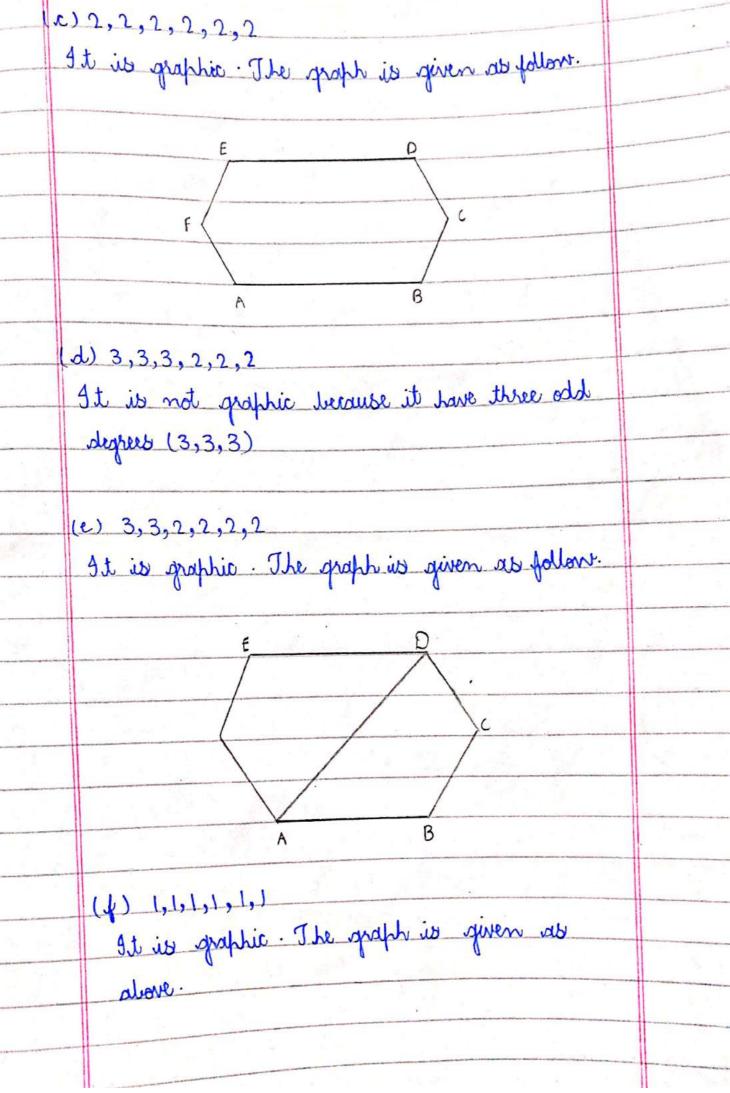
This graph is given below. The degree of vertex is the number of edges that connect to the vertex. deg (A) . 3 deg (B) · 3 dy (C): 3 deg (D). 3 deg (E) = 4 The degree beguence is the nonincreasing sequence of degrees of vertices. Degree sequence, 4, 3, 3, 3, 3 (d) K2,3 K2,3 has two sets of vertices: a set of 2 vertices and a set of 3 vertices. M = { A, B} N= {C, D, E} The vortices of M sould be commod connected to every vertex in N.

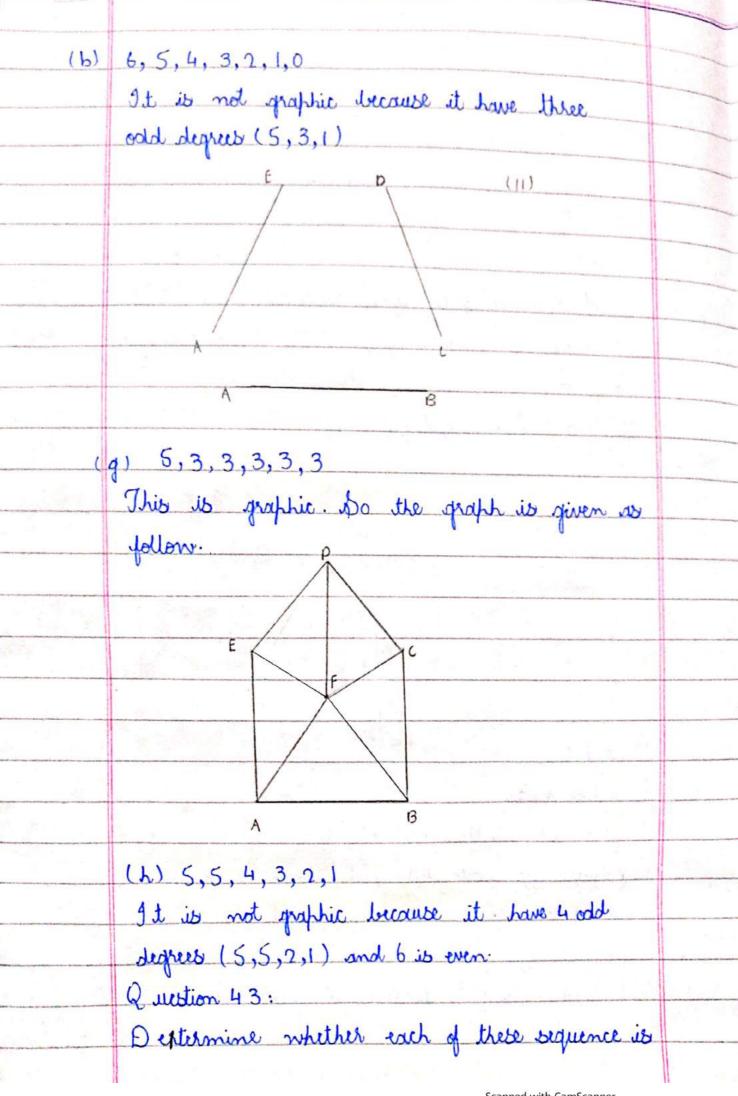
deg (000) = 3 deg (001): 3 deg (010) = 3 deg (011). 3 deg (100) = 3 deg (101) : 3 deg (110) = 3 deg (111) : 3 The degree sequence is the nonincreasing beguence of the degree of the vertices-Degree sequence . 3, 3, 3, 3, 3, 3, 3, 3 Question 38: What is the degree sequence of the dipartie graph Km, n where m and n are positive integer? Explain your amoner. Km, n has two set of vertices: a set of an vertices M and set of an vertices N.

	The vertices in M should be connected to every vertex in N.	
	Every vertex of M is then connected to the n vertices of N.	
	Every vertex of N is then connected to the m vertices of M.	
	The degree of vertex is the number of	
	edges that connect to the verter Let $\pi_1 \in M$ and let $\psi_1 \in N$ $\deg(\pi_1) \cdot n$	
4	deg (y1)·m	
	The degree bequence is the nonincreasing sequence of the degrees of the vertices. The degree sequence then contain n, which is	
	repeated n times. and contain m, which is	
	Degree sequence if m ≥ n : m, m, m, n, n,	
	Degree sequence if m (n. n.n.,, n, m, m	11
	n representation in ref	repentation
or and the particular of the second		

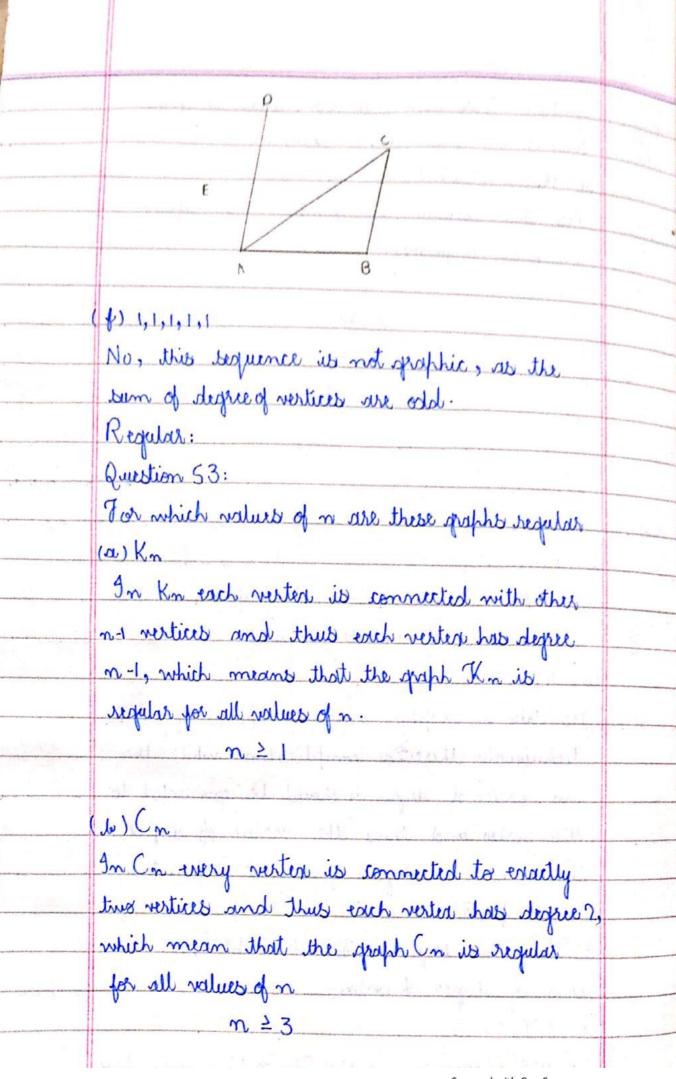
	Question 39:	
	OALL I	
	I had it the degree sequence of Kin, where	
	What is the degree sequence of Kin, where is the positive integers Eaplain your	The second secon
	answer.	
	Kn has n vertices N and each vertex is	
Opros	connected to each of the other n-1 vertices:	
words.		
-	The degree of vertices is the number of edges	
-	that connet to the vertex	-
October 1981	Let n; EN	
	deg(ni): n-1	
	The degree sequence is the nonincressing	
	bequence of the degrees of the vertices. The degree	
_	sequence then contains no, which is repeated in	
-	times and contains m, which is repeated n	
-	times.	
•	Digree tequence · n-1, n-1,, n-1	
	n repretition	
	Question 40:	
	How many edges does a graph have if its degree	
	bequence is 4, 3, 3, 2, 2?	
-	Draw buch a graph.	
	Edder & Dum of Lodge . 11 67	- 1
	Edges: Sum of degree . 14 .7	
_	The state of the s	a light company of company







graphic. For those that are, draw a graph having the given degree sequence (a)3,3,3,3,2Yes this sequence is graphic. The graph is given so follow. (b) 5,4,3,2,1 No, this sequence is not graphic, as the sum of degree of vertices are add. (x) 4, 4, 3, 2, 1 Yes this a graphic sequence appearantly but techniqualy there no complication while the ot betrannos ed blund is aspet jo esitrer out this vertex and thus the vertex of degree ! with, od . I tear to be supply to supply blood elissed ten di (d) No, this bequence is not graphic, as the bum of degree of vertices are odd. (e) 3, 2, 2, 1, 0 Yes this sequence is graphic. The graphie given above



Question 55. How many vertices does a regular graph of degree four with to edges have. We nant to determine a regular graph of degree your with m= 10 tdops Let the graph contains on vertices V, v2 . - - Vn then 4 supple such desitrer or east to have deg (V.) .4 i = 1, 2, ... m By handshaking theorems 20.2(10)=2m. E deg (v1)= E 4.4 mmn We then obtained the equation 20=4n 20.4n