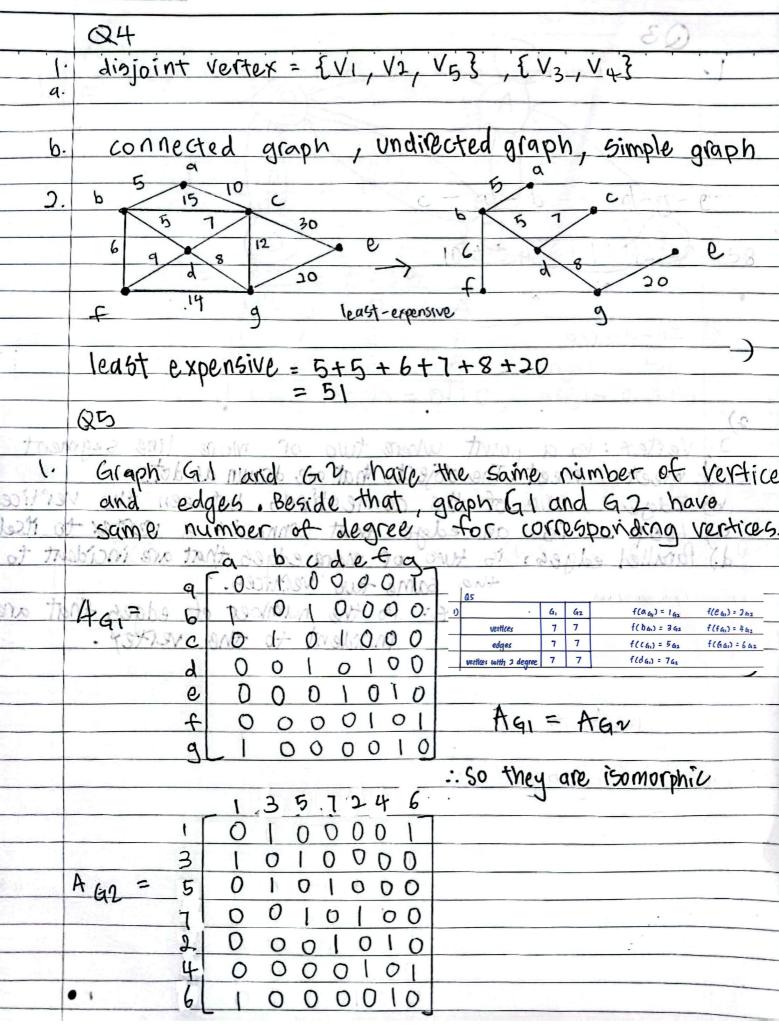
Date: ... QI b) ways to select 2 teachers = 5(2 1) 0) Total = 20 + 5 = 25 ways to select all teachers = 564 ways to relect 2 parents = 2012 ways to form 4 people in group = 2504 = 12650 10X190 = probability = 12650 probability = = 0.0003953 12650 2530 2) Let A n 8 = Kamal will live on Campus and buy a new car = 0.37 Let B = Kamal will live on campus = 0.73 $P(A \cap B) = 0.37 = 0.5068$ P(AIB) = P(B) 0.73 3) 4) E= {(1,1), (1,3), (1,5), (3,1), (3,3), (3,5), (5,1), (5,3), (5,5), (2,2),(2,4), (2,6), (4,2), (4,4), (4,6), (6,2), (6,4), (6,6) } b) probability that sum = $9 : \{(3,6), (4,5), (5,4), (6,3)\} = 4$ probability of all posible outcome : 6x6 = 36 c) probability that sum = 7 : {(1,6),(6,1),(2,5),(5,2),(3,4),(4,3)} = 6 probability that sum = 8 : {(1,6), (6,2), (3,5), (5,3), (4,4)} = 5 5+6 = 0.3056 probability = 36

	Date:
Q2	
a) P(A) = The	computer was purchased from Arme = 55 = 0.55
	100
P(1)) = The (computer was purchased from Dotlom = 16 = 0.10
1 - 1	100
P(N) = The	computer was purchased from Nuclear = 35 = 0.35
No. of Contract	100
	· Programme Services
b) P(B) = The cor	mputer was defective
PCBIA) = 1	
100	0.019
P(B10) = 3	= 0.03 c accoment yould be supposed to cardious horses at the first h
100	O N.D. P propt. on G. o. von Jungsel of Call
P(BIN) = 3	= 0.03
100	
o) Let I = Event	t of Covid-19 active infection b) P(I' T) = P(T I') P(I')
	t of positive RT-PCR test
	= (0.02)(0.85)
P(I) = 0.15	0.1595
P(TII) = 0.99	= 0.1066
P(T/I') = 0.0	01
P(I') = 1-0.1	15 = 0.85
	The state of the s
P(1 T) = P(
P(I T) = P((TII) P(I) P(T)
P(I T) = P(P(T) = P(T I	(T 1) P(1) P(T) 1) P(I) + P(T I') P(I')
P(I T) = P(P(T) = P(T I = (0.45)	(T 1) P(1) P(T) 1) P(I) + P(T I') P(I') T)(0, s) + (0.02)(0,8s)
P(I T) = P(P(T) = P(T T) = (0.95) = 0.1595	(T 1) P(1) P(T) 1) P(I) + P(T I') P(I') T) (0, s) + (0.02)(0,8s)
P(I T) = P(P(T) = P(T T) = (0.95) = 0.1595 P(I T) = (0	(T 1) P(1) P(T) 1) P(I) + P(T I') P(I') T) (0,15) + (0.02)(0.85) S 0.95)(0.15) = 0.8934
P(I T) = P(P(T) = P(T T) = (0.95) = 0.1595 P(I T) = (0	(T 1) P(1) P(T) 1) P(I) + P(T I') P(I') T) (0, s) + (0.02)(0,8s)
P(I T) = P(P(T) = P(T T) = (0.95) = 0.1595 P(I T) = (0	(T 1) P(1) P(T) 1) P(I) + P(T I') P(I') T) (0,15) + (0.02)(0.85) S 0.95)(0.15) = 0.8934



-	0.:				Date:
					, . , . , . , . , . , . , . , . , .
a	υ				
		G,	4,	f(a a,) = 1	61 f(ea1) = 561
	vertices	6	6	f(b4,) = 2	61 f(fq,) = 661
	edges		9	f((61) = 36)	
L	vertices with 3 degree		6	f (dai) = 461	
	abidef			1 2 3 4 5 6	
0	011010]		1	0101107	
B	6 1 0 1 0 0 1		2	101001	However, adjocent maths of Gi
0	110100		3	010116	are not equal to G1.
d	1001011		4	101001	f: 4, -> 4; cannot be defined
e	100101		5	101001	it is not isomorphic
f	[010110]		6 L	010110	
	adjacent matus G.			adjacent matrix G2	
G	in also has a simple cycle of	length	3 but	Ga does not have. For ex	cample a Vc a-b-c-a
		U			
b)					
L		G.	62	f(a a,) = 1	$f(e_{61}) = 562$
vertices		6	6	$f(b_{Gi}) = 262$ $f(f_{Gi}) = 662$	
	edges		11	f (CG1) = 3G2	
vertices with 3 degree		2	2	f(d61) = 462	
	The same of the sa				
	vertices with 4 degree	4	4		
	vertices with 4 degree	4	4	123456	The degree of vertex a in G, has 4
a	vertices with 4 degree a b c d e f	4	4	123456	The degree of vertex a in G, has 4 degree but degree of vertex 1 in G2
a b	vertices with 4 degree a b c d e f	4			The degree of vertex a in G, has 4 degree but degree of vertex 1 in G2 has only 3 degree.
	vertices with 4 degree a b c d e f [0 1 1 1 1 0 7 1 0 1 0 1 1 0 1 0 1 1 1 0 1 0	4		011100	The degree of vertex a in 61, has 4 degree but degree of vertex 1 in 62 hus only 3 degree. However, adjacent matrix of
Ь	vertices with 4 degree a b c d e f [0 1 1 1 1 0 7 1 0 1 0 1 1	4	1 2	101011	The degree of vertex a in G, has 4 degree but degree of vertex 1 in Gz hus only 3 degree. However, adjacent matrix of G, are not equal to Gz
b c	Vertices with 4 degree a b c d e f [0 1 1 1 1 0 7 1 0 1 0 1 1 1 1 0 0 0 1 1 6 0 0 1 1	4	1 2 3	101011	The degree of vertex a in G, has 4 degree but degree of vertex 1 in G2 hus only 3 degree. However, adjacent matrix of G, are not equal to G2 f:G, -> G2 cannot be defined
b c	Vertices with 4 degree a b c d e f [0 1 1 1 1 0 7 1 0 1 0 1 1 1 1 0 0 0 1 1 1 0 1 0 1	4	3	101011	The degree of vertex a in G, has 4 degree but degree of vertex 1 in Gz hus only 3 degree. However, adjacent matrix of G, are not equal to Gz
ь с d е	Vertices with 4 degree a b c d e f [0 1 1 1 1 0 7 1 0 1 0 1 1 1 1 0 0 0 1 1 1 0 1 0 1 1 1 0 1 0	4	1 2 3 4	0 1 1 0 0 1 0 0 1 1 0 0 0 1 0 1 0 0 1 1 0	The degree of vertex a in G, has 4 degree but degree of vertex 1 in G2 hus only 3 degree. However, adjacent matrix of G, are not equal to G2 f:G, -> G2 cannot be defined
ь с d е	Vertices with 4 degree a b c d e f [0 1 1 1 1 0 7 1 0 1 0 1 1 1 1 0 0 0 1 1 1 0 1 0 1	4	1 2 3 4	101011	The degree of vertex a in G, has 4 degree but degree of vertex 1 in G2 hus only 3 degree. However, adjacent matrix of G, are not equal to G2 f:G, -> G2 cannot be defined
b c d e f	vertices with 4 degree a b c d e f [0 1 1 1 1 0 7 1 1 0 0 1 1 1 0 0 0 1 1 1 1	4	1 2 3 4	0 1 1 0 0 1 0 0 1 1 0 0 0 1 0 1 0 0 1 1 0	The degree of vertex a in G, has 4 degree but degree of vertex 1 in G2 hus only 3 degree. However, adjacent matrix of G, are not equal to G2 f:G, -> G2 cannot be defined
ь с d е	vertices with 4 degree a b c d e f [0 1 1 1 1 0 7 1 1 0 0 1 1 1 0 0 0 1 1 1 1	4	1 2 3 4	0 1 1 1 0 0 1 0 1 0 1 1 1 0 6 0 1 1 0 1 1 1 0 1 0 1 1 1 1 0 adjacent matrix 62	The degree of vertex a in G, has 4 degree but degree of vertex 1 in G2 hus only 3 degree. However, adjacent matrix of G, are not equal to G2 f:G, -> G2 cannot be defined
b c d e f	vertices with 4 degree a b c d e f [0 1 1 1 1 0 7 1 1 0 0 1 1 1 0 0 0 1 1 1 1	4	1 2 3 4	0 1 1 1 0 0 1 0 1 0 1 1 1 0 6 0 1 1 0 1 1 1 0 1 0 1 1 1 1 0 adjacent matrix 62	The degree of vertex a in G, has 4 degree but degree of vertex 1 in G2 hus only 3 degree. However, adjacent matrix of G, are not equal to G2 f:G, -> G2 cannot be defined