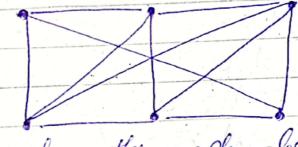
# G1 ASSIGNMENT 03

## Bilal Ahned Khan; 20KO183

Sec: B

### QUESTZON OI

let n=3 2(n) = Buerfices



consider the graph above

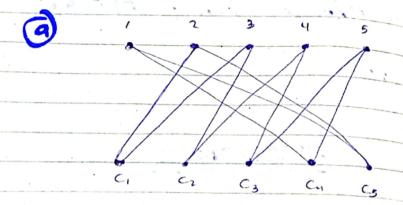
Here 8(G) = 3 & n=3

There also exists a perfect

matching

Hence provid

QUE\$120N 02

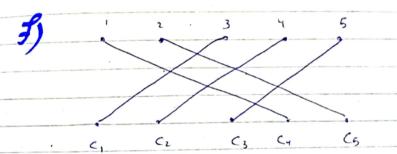


deg(1): 2 deg(2): 2 deg(3): 2 deg(4): 2 deg(5): 2

clog (C1) 2 2 clog (C2) 2 2 clog (C4) 2 2 clog (C4) 2 2 clog (C5) 2

A) It's 2 regular since all vertices have dogree 2

Jes the graph Gras perfect matching.



QUEST20N 03

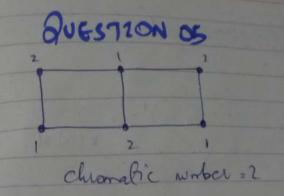
a) No, it doesn't have perfect matching

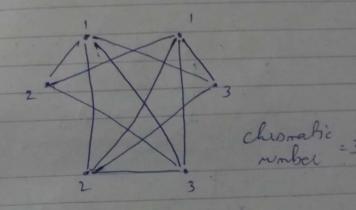
b) The size of maximum matching

#### QUESTZON 04

		Mer	P	voposing
6	) 4	9	7	
	V	9	X	
	W	C	×	
	n	C	9	
	y	C	X	
	Z	d	?	
2	4	Q	2	
9	V	B	×	CETECH CE
	·w	6	?	
	X	C	?	
	y	d	2	
		D		

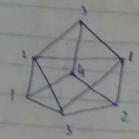
3	4	9	?	9 4	The second second	×
-	)	C	~	V		-
w	1	6	?	w	6	?
1		C	X	×		?
y		d	?	y	d	?
2		e	?	2	e	?
8 4	b	X		0 4	d	?
V	c	-		V	c	V
ω	B	?		ω	6	?
× ×	9	?		7	C	?
y	d	- 7		4	d	?
Z	e	2		2	e	7
2 4	(	×		(B) U	₽.	-
V	e			V	c	~
w	b	?		ω	6	-
71	9	?		X	9	-
y	d	?		1	of	~
	e	2		2	e	V
2		-				





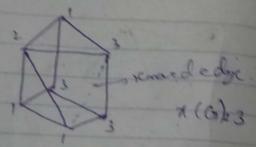
## QUESTION 06

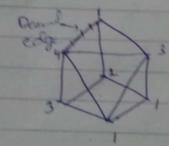




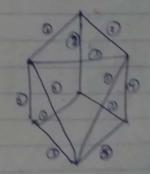
4 (6) 4

ii





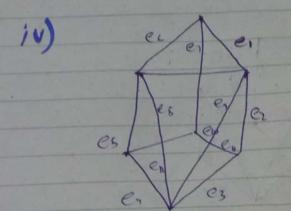
7 (6), 4 (7 (6)-e), x (6)-1 is not fine for all colgos) ñí

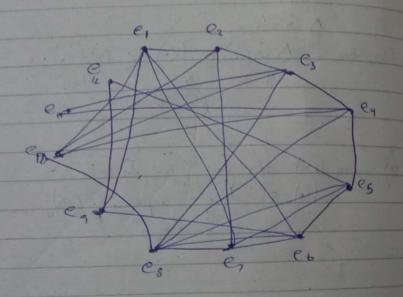


1 (cn): 5

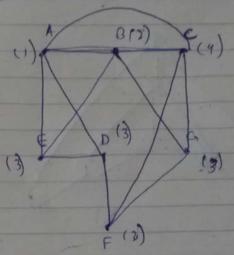
v) 7 (G) of him graph : 5

7 (G) of live graph : 2' (9)





#### QUESIZON 07



Minimum 4 time slots will be required since 4 colors

