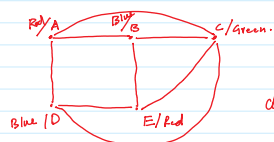
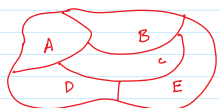


Lec # 26:- Graph Colouring



{Red, blue, Green}.

Chromatic # = 3.

Chromatic Number:- It is the minimum Number of Colours required to colour the graph with a property that no two adjacent Vertices should have the same colour.

$K_2, C=2$

$P_n, C=2$

$K_3, 3$

$K_4, 4$

$K_n = n$

$C_3, 3$

$C_4, 2$

$C_5, 3$

$C_6, 3$

Do for wheels.

Schubert's.

2×5 Cases. 1, 2, 3, 4, 5, 6, 7.

Minimum Number of Slots for Conducting Exam.

1 & 2

3 & 4

1 & 3

3 & 6

1 & 4

3 & 7

1 & 7

4 & 5

2 & 3

4 & 6

2 & 4

5 & 6

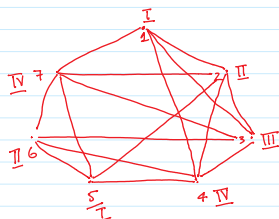
2 & 5

5 & 7

2 & 7

6 & 7

6 & 7.



Slot I, II, III, IV.

I 1, 5

II 2, 6

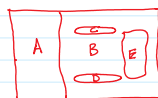
III 3

IV 7, 4.

Quiz # 5

22-Nov-2025.

a).



Graph Colouring
Find Chromatic #.

b) A Simple Graph with 1000 Vertices & one edge. Find Chromatic # for such a graph.

7

