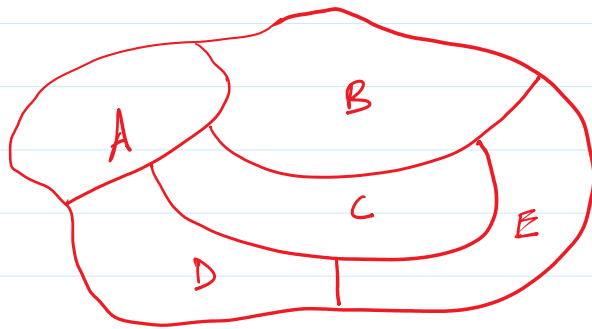
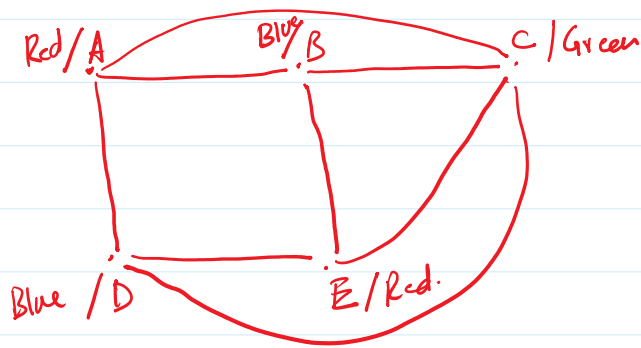


lec # 25:-

Graph Colouring.

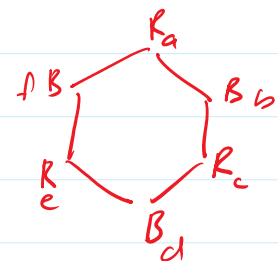
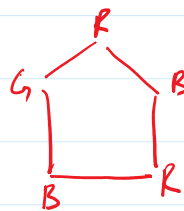
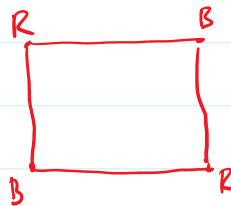
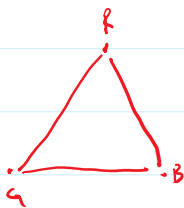


{Red, Blue, Green}

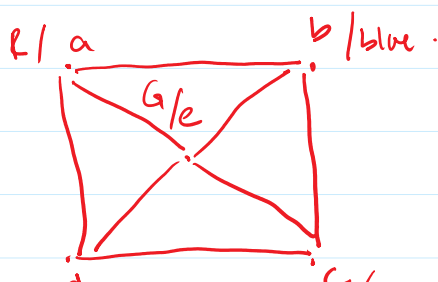


Chromatic Number.

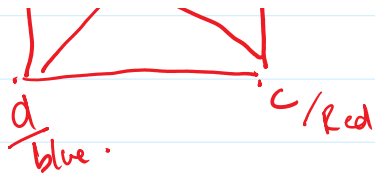
Chromatic Number:- The minimum number of Colours Used to Colour a graph.



K_n Chromatic Number = n .



{Red, Blue, Green}



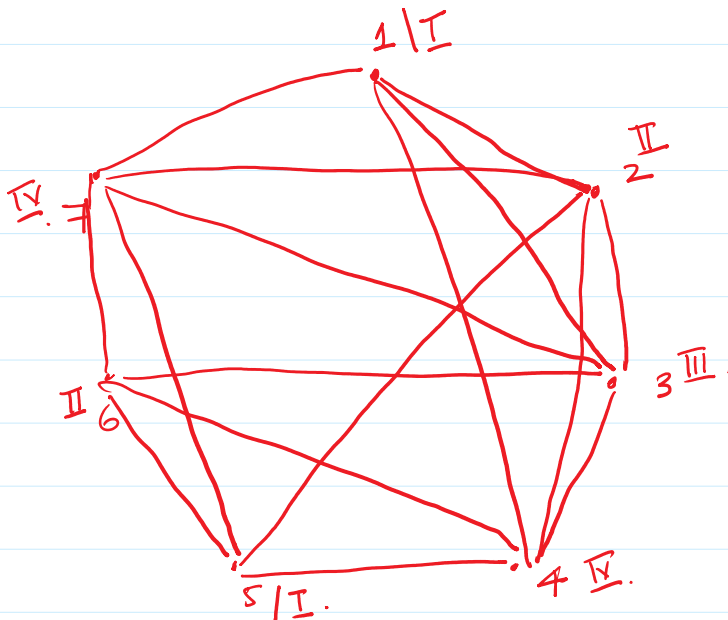
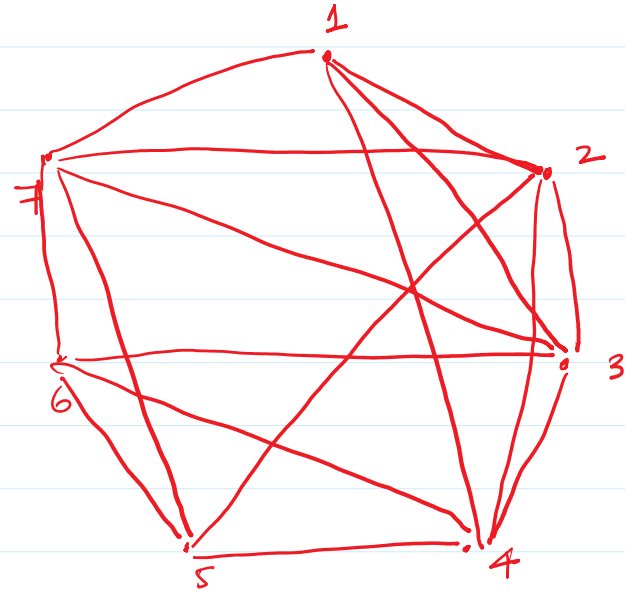
True Table Generation:-

Ex 5 :-
622

7 Courses.

- | | |
|-------|--------|
| 1 & 2 | 3 & 4 |
| 1 & 3 | 3 & 6 |
| 1 & 4 | 3 & 7 |
| 1 & 7 | |
| | 4 & 5 |
| 2 & 3 | 4 & 6 |
| 2 & 4 | |
| 2 & 5 | 5 & 6 |
| 2 & 7 | 5 & 7 |
| | 6 & 7. |

Minimum Slots for Conducting Exam.



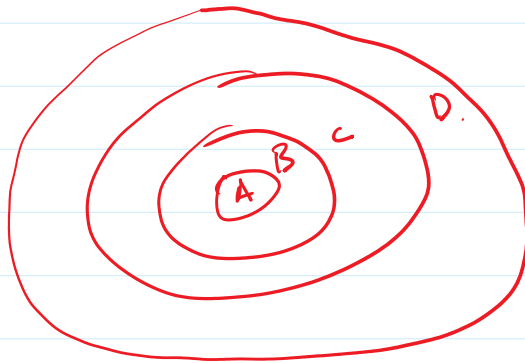
I, II, III, IV.

<u>I</u>	<u>II</u>	<u>III</u>	<u>IV</u>
1, 5	2, 6	3,	4, 7.

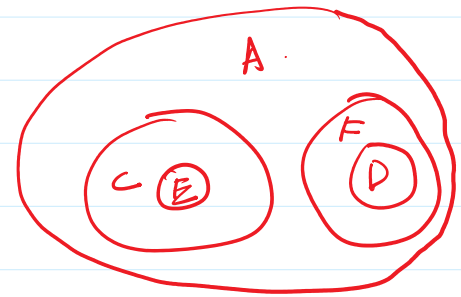
Quiz #5

21-Nov-2023.

a).



b).



m