

Werner's Theory:

1. In coordination compounds metals show two types of linkages (valences)-primary and secondary.

2. The primary valences are normally ionisable and are satisfied by negative ions.

3. The secondary valences are non ionisable. These are satisfied by neutral molecules or negative ions. The secondary valence is equal to the coordination number and is fixed for a metal.

4. The ions/groups bound by the secondary linkages to the metal have characteristic spatial arrangements corresponding to different coordination numbers.



The slope-ratio method is particularly useful for

weak complexes but is applicable to a system in which only one complex is formed. However, the method assumes that (i) the complex formation reaction can be forced to completion in presence of large excess of either reactant (ii) Beer's law is obeyed under these conditions.



- 4- Add to each (**0.5ml**) of [2M] H_2SO_4 .
- 5- Fill with <u>distelled water</u> and **SHAKE** well.
- 6- Move to the next Laboratory and determine the Mole-Ratio تركى الصالح الخليوي



C. Des Martin III Mer HPLO IEC ICP-CES ICP-MS ICP-R E Results: الدور الأول- الدور الأول- الدلاح التبدر

No	C _{M/L}		MR	MR _{dig}	Abs.
Blank	0	0	0	0	0
1	C ₁	C ₁	مرعن الشرير 1:3 الا تدور معن المانوي (الاتعا	0.333	نسبة اكتمال الموقا A ₁
2	C_2	$\overset{\text{output}}{C_2}$	1:2	0.5 ¹¹	نسبة ال م الم الم الم الم الم الم الم ا
3	C ₃	C ₃	(10) 1:1 بو اوراور ۲ (۱۳۵۵ ا	1 	، اختار $\mathbf{A_{3}}$ تمارین
4	C ₄	ية عن تعد \mathbf{C}_4	غناف الدراسة النظرية والعم 2:1	2	
5	C ₅	C_5	ق الدراسة اللطرية والعملية 3:1	¹⁰⁷ 3	dallaA polji + dalani ≶poljo -

Calibration Graphs (Possibility of one only):

