

LIST OF TABLE

Table No.	Content	Page No.
1.1	Properties of Salen	5
1.2	Coordinate geometry, colour and magnetizn of Different Salen	14
3.1	Conductivity Factors for ions commonly found in water	66
3.2	The Electrical conductivity of azo polymers) at different temperatures	75
4.1	Anticipated IR spectral features for crystals and Schiffbase	92
4.2	Reflectance spectral data of Cu ²⁺ Chelates	106
4.3	Reflectance spectral data of Ni ²⁺ Chelates	106
4.4	Experimental data of magnetic moment of Crystal	114
5.1	Thermogravimetric analysis of Crystals and Schiffbase	131
5.2	Thermal conductivity of Crystal	141
6.1	Analytical Data and Some Physical Properties of Metal Crystals	161
7.1	Antibacterial Activity of Metal Salts against <i>E. Coil</i>	172
7.2	Antibacterial Activity of Metal Salts against <i>B. Megaterium</i>	173
7.3	Antibacterial Activity of Schiff Base against <i>E. Coli</i>	173
7.4	Antibacterial Activity of Schiff Base against <i>B. Megaterium</i>	173
7.5	Antibacterial Activity of Synthesized Crystals against <i>E. Coli</i>	174
7.6	Antibacterial Activity of Synthesized Crystals against <i>B. Megaterium</i>	174
