Preface

The preparation of nano composites and synthesis of nano silver is difficult tasks. The challenges are that to maintain their original characteristics at nano level. Diamond like nano composites are produced by advanced refractory technologies. Diamond like nanocomposite films shows very good tribological properties such a way that they can be used as any kind of surface coating. It shows high hardness, low stress, and excellent adhesion to the wide range of variety of substrates. It has proven high wire resistance, so the chances of wear out from the surface are very less. In case of prosthetic replacement the used materials can be coated with this Diamond like nano composite material, and the longevity will be much higher than the conventional method. The size of nano particle having a major role for wound healing application. The nano silver particle is prepared based on simple chemical reduction method. Due to the small size nano silver has higher surface area to volume ratio. The formed nano silver is a homogeneous and stable form of silver. The nano silver application on wound, assessment of wound healing is carried out in this thesis. Involving different computational and mathematical techniques the scope of this research also enhances. This thesis is based on the characterization and application of different types of nano material and their usefulness for the human beings