Abstract

Documents have taken up a very important place in our society. Frauds committed in connection with documents are not at all uncommon and in fact represent a very large domain of the forensic science called "Questioned Documents". In the field of forensic, the legitimacy of an ink entry is often an essential question during the examination of questioned documents. A common type of forgery consists of materially altering the existing writing or addition of the new writing. These changes can be characterized by means of optical spectroscopy. The aim of this work is to perform the UV-visible, IR and reflectance spectrophotometer to analyze a wide range of blue and black commercial ballpoint pens in order to investigate the discriminating characteristics of the different inks found on the same document. This work will benefit the forensics in developing ink library which will benefit the questioned document laboratories all over the Pakistan.