Preface

It is established that heterocyclic chemistry is a profile source for a large number of unusual, structurally complex and bioactive molecules. Over the decades this has been exploited to provide a rich source of many biologically potent systems. Although many have meddled with this, still intriguing interest is sustained in this field. In fact, the compounds emerged from this branch of chemistry holds special appeal to synthetic chemists because of their remarkable structural diversity, which provides a fertile ground for developing and testing new synthetic strategies. The voluminous data available in the literature truly reflects this tendency. In this perspective the work embodied in the thesis entitled “A study on the chemistry of some novel heterocycles” has been taken up by the author and describes the author's contribution to the synthesis of 2-oxazolines, 2-thiazolines and bis heterocycles having pyrrole in combination with 2-oxazoline and 2-thiazoline units. This has been accomplished from the methyl esters of arylsulfonylacetic acid, benzylsulfonylacetic acid, phenacylsulfonylacetic acid and styrylsulfonylacetic acid adopting facile and novel synthetic strategies. The structures of the new compounds have been analyzed by their spectral parameters. The results thus accomplished are described in different sections of the thesis for clear and better presentation.