GENERAL REMARKS

1. All the melting points recorded in °C are uncorrected.
2. All solvents and reagents were purified and dried using standard procedures.
3. All reactions were followed by Thin Layer Chromatography (TLC) on a glass plate coated with silica gel slurry.
4. Thin layer chromatography was performed on Merck 60 F254 silica gel plates and visualization was accomplished by irradiation in UV or iodine.
5. Crude products were purified by column chromatography on 100-200 mesh silica gel.
6. IR spectra were recorded on Perkin Elmer Spectrum BX FT-IR as a KBr pellet and are expressed in cm$^{-1}$.
7. $^1$H and $^{13}$C NMR spectra were recorded on Varian Mercury spectrometer on 300 and 75 MHz resp. using CDCl$_3$ as solvent. Chemical shifts are reported in δ ppm with reference to TMS as an internal standard. $s =$ singlet, $d =$ doublet, $t =$ triplet, $q =$ quartet, $m =$ multiplet, $br\, s =$ broad singlet, $dd =$ doublet of doublet, $br\, dd =$ broad doublet of doublet.’ All singlets, doublets, triplets and quartets were measured/ scaled at their centered positions.
8. Spectra of important intermediates, target molecules and new compounds have been incorporated. The spectral charts incorporated in this thesis are in most of the cases photocopies of the original spectra reduced to the standard size, while in some of the cases photocopies of the tracing of the original spectra reduced to standard size.
9. The bold figures are the figure numbers and figures in superscripts are literature references. The numbers assigned to the compounds, charts and figures in each chapter of this thesis refer only to that particular chapter.
10. All organic extracts were washed successively with water followed by drying over anhydrous sodium sulfate.
11. References mentioned in this thesis are in the following order: authors, name of the journal/book, year, volume number, and page number.

12. Standard abbreviations used:

Ac                          Acetyl
aq.                        Aqueous
C.A.                      Chemical Abstract
CAN                      Ammonium cerium (IV) nitrate
cm                        Centimeter
conc.                    Concentrated
dil.                     Diluted
DMF                    N,N-Dimethylformamide
e.g.                    For example
ether                   Diethyl ether
g                      grams
mg                      micrograms
LAH                 Lithium aluminium hydride
SBH                   Sodium borohydride
DCM                    Dichloromethane
Hr/hrs                Hours
Min                    Minutes
THF                   Tetrahydrofuran
DMS                   Dimethyl sulphide