GENERAL NOTES

1. The underlined arabic and roman numerals in the body of the thesis within brackets refer to the structural formulae and those given as superscript numbers refer to the reference numbers given at the end of each chapter.

2. Melting points recorded in this thesis were determined in electrical melting point apparatus and are uncorrected.

3. The TLC spots were visualized in UV light, by FeCl₃ spray and/or by exposure to iodine vapors.

4. UV spectra recorded in this thesis were taken in Shimadzu-U V240 (Graphicord) recording spectrophotometer.

5. IR spectra recorded in this thesis were taken using Perkin-Elmer 1600 series FT-IR spectrophotometer.

6. PMR and ¹³C-NMR recorded in this thesis were taken in Bruker 200MHz FT NMR (200 MHz), Bruker 400MHz AMX 400 FT NMR (400 MHz) and Bruker 500MHz DRX 500 FT NMR spectrometer (for 2D NMR).

7. Whatman No. 1 paper was used in paper chromatography and the spots were visualised by aniline hydrogen phthalate spray.

8. For column chromatography, Silica gel (60-120 mesh) supplied by FISCHER (India) was used. For TLC, 'Silica gel G for TLC, supplied by FISCHER (India) was used.

9. HPLC was carried out in Shimadzu C- R7A Chromatopac High Performance Liquid Chromatograph.

10. The relative abundance of the molecular ions in the mass spectral fragmentation patterns is given in parenthesis.