General Remarks

1. All melting points were carried out in open capillaries and are uncorrected.

2. The compound numbers, scheme numbers and reference numbers given in each chapter refer to that particular chapter only.

3. All solvents were distilled prior to use.

4. Organic layers were dried over anhydrous sodium sulfate.

5. TLC analyses were carried on ready made GF-254 TLC plate (Make-Merck).

6. In case where chromatographic separations were done, SiO₂ was used as the stationary phase.

7. The IR spectra were recorded on FT/IR-410 type (A) spectrophotometer in KBr and adsorptions are expressed in cm⁻¹.

8. ¹HNMR spectra were measured in DMSO-d₆ and CDCl₃ solution on a Bruker spectrophotometer at 200/300/400 MHz.

9. Electron-spray ionization mass spectra (ES-MS) were recorded on a Water-Micro mass Quattro-II spectrometer.

10. Microwave irradiation was carried out in microwave oven equipped with a turntable was used (LG Smart Chef MS-255R operating at 2450 MHz having maximum output of 900 W).