

LIST OF SCHEMES

SCHEMES	PAGE NO.
CHAPTER IV	
Scheme 1. Geometry of β -Cyd (a) and Ball & stick representation of (b) β -Cyd and (c) DEPM; blue for carbon and red for oxygen.	92
Scheme 2. The probable mechanism of the reaction of the inclusion complex of DEPM with β -Cyd.	100
CHAPTER V	
Scheme 1. Structures of selected ionic liquid (a), 18-Crown-6 (b) and dibenzo 18-Crown-6 (c).	109
Scheme 2. Schematic representation of complexation of 1-ethyl-1-methylpyrrolidinium hexafluorophosphate with 18-Crown-6 (18C6) and dibenzo-18-crown-6 (DB18C6).	121
CHAPTER VI	
Scheme.1: Ball & stick representation of (a) L-tyrosine, (b) L-phenylalanine, (c) 1-butyl-3-methylimidazoliumoctylsulphate [BMIM][C ₈ SO ₄] and (d) 1-methyl-3-octylimidazolium chloride [MOIM]Cl respectively.	130
Scheme 2: Schematic representation of interactions between (a) ([BMIM][C ₈ SO ₄] +L-tyr) (b)([MOIM]Cl +L-tyr) (c) ([BMIM][C ₈ SO ₄]+ L-phe) and (d) ([MOIM]Cl +L-phe) systems in aqueous solution respectively.	145
CHAPTER VII	
Scheme 1. Geometry of (a) β -cyclodextrin molecule and (b) Nortriptyline hydrochloride (NTHCL).	151
Scheme 2. The probable mechanism of the association phenomenon of the complexation for NTHCL with β -cyclodextrin.	157

CHAPTER VIII	
Scheme 1. Geometry of (a) Padimate O [2- ethylhexyl 4-(dimethylamino) benzoate] (PMO) and (b) cyclodextrin molecule (n=6 for α - Cyd and n=7 for β - Cyd).	170
Scheme 2. The probable mechanism of the association phenomena of the complexation process for PMO with cyclodextrin with 1:1 stoichiometry.	180
CHAPTER IX	
Scheme 1. The molecular structure of the selected amino acids in aqueous solutions (A) and the structure of β - CD (B) (host molecule).	189
Scheme 2. Schematic representation of formation of inclusion complexes between amino acid and β -CD in aqueous medium at 298.15 K.	193
Scheme 3. Different possibilities of host-guest ratio for inclusion complex.	194
Scheme 4. Schematic representation of formation of inclusion complexes of L-Methionine, L-Proline and L-Glutamine with β -CD.	195
Scheme 5. Stereo-chemical configuration (A), truncated conical structure of β - cyclodextrin with interior and exterior protons.	203
