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## Chapter I: -

**Introduction** - Significance of Indian medicinal plants and role of natural products in treatment of diseases. It includes the usefulness and application of modern separation by chromatographic and spectral techniques, isolation as well as structural elucidation of chemical constituents from medicinal plants: *Smithia conferta*, *Prosopis spicigera* and *Sesbania aegyptiaca*, along with relevant references.

## Chapter II: -

**Part A** - Isolation and structural investigation of an iso flavone glycoside (SKS-I) from the leaves of *Smithia conferta*.

**Part B** - Study of Anti-ulcer activity of the leaves extract of *Smithia conferta*.

## Chapter III: -

**Part A** - Isolation and structural investigation of a flavones glycoside (SKS-II) from the seeds of *Prosopis spicigera*.

**Part B** - Study of Anti-inflammatory activity of the seed extract of *Prosopis spicigera*. 

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Chapter IV: -

Part A- Isolation and structural investigation of a flavones glycoside (SKS-III) from the stem of Sesbania aegyptiaca.

Part B- Study of Anti-microbial activity of the stem extracts of Sesbania aegyptiaca.

Appendix-
1-Published / accepted / communicated research papers in the International / National Journals.
2- Attended International / National: Seminars / Conferences / Workshops etc.