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- Notes : 1. Illustrate your answers wherever necessary with the help of neat sketches.
2. All question are compulsory.

- 1. Solve any ten** **10x2**
=20
- 1) Importance of Herbal industries.
 - 2) Biosynthesis
 - 3) Enlist Radio tracing technique.
 - 4) Define Alkaloids with example.
 - 5) What do you mean by Quercetin.
 - 6) Note on Terpenoids
 - 7) Enlist phases of clinical trials.
 - 8) Define extraction
 - 9) Microwave
 - 10) CCCET stands for.
 - 11) HPTLC
 - 12) Menthol
- 2. Solve any two** **2x10**
=20
- 1) Discuss in details on latest methods of separation of phytoconstituents.
 - 2) Explain structural elucidation of citral by spectral studies.
 - 3) Discuss isolation and characterization of Quercetin.
- 3. Write a note on any five** **5x7**
=35
- 1) Different phases of clinical trial
 - 2) Selection of lead structure in herbal drug industry.
 - 3) Flash column chromatography.
 - 4) Super critical fluid extraction
 - 5) Application of radiotracing techniques.
 - 6) Isolations of sennosides
 - 7) Isolation of vinea alkaloids
