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**B. Pharmacy (Ayurveda) 5th Semester Examination**  
**Pharmaceutical Analysis of Ayurvedic Drugs-II**

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**Time : 3 Hours**

**Max. Marks : 90**

*The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.*

**Note :** Attempt all questions.

1. Discuss in detail the chromatographic methods of analysis and discuss how this can be employed for analysis of Ayurvedic drugs by taking one of the method as example. **(25)**
2. The Govt. is making mandatory to standardize the herbs and herbal products. Do you think it possible to standardize them? If yes, write the methods and if not, write what are the constraints you can come across? **(20)**
3. (a) Give the basic principle, Instrumentation and application of mass spectrometer.
- (b) Write down the concepts and application of turbidimetric and nephelometric flow analysis. **(2×10=20)**
4. Write short notes on:
  - (i) Packing and charging column in column chromatography.
  - (ii) What is monochromator? Throw light on its applicability.

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- (iii) What is pulsed flow in HPLC; why does it occur and why is this not a desirable feature?
- (iv) Most of the Ayurvedic drugs contain sodium and potassium. What instrument you will use to detect and how they can be estimated?
- (v) T.L.C. **(5×5=25)**