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**B. Pharmacy (Ayurveda) 5th Semester Examination**  
**Pharmaceutical Analysis of Ayurvedic Drugs-II (OS)**  
**Paper-2**

**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 about the Instrumental Analysis and what are the Instruments necessary for analysing the Ayurvedic single and compound formulations. (25)
2. (a) You have been provided with "Dasamoolaristha" an Ayurvedic liquid dosage form. Write down the various methods of analyzing it for quantification of its contents and clarity testing.  
(b) How will you estimate ethanol in Ayurvedic fermentation formulations in the presence of volatile components. (2×10=20)
3. Discuss in detail the importance and application of H.P.L.C. (20)
4. Write short notes on:
  - (i) Narrate the limitations of U.V. spectrophotometry and how to overcome these.
  - (ii) Descending paper chromatography.

[P.T.O.]

- (iii) Explain with a line diagram the different parts of NMR spectrometer.
  - (iv) "In practice it is sometimes difficult to find suitable analytical markers for quantitative purposes. Can primary metabolites of herbal drugs also be used as analytical markers for stability testing in case suitable secondary metabolites are not available? Is this also possible for release testing?"
  - (v) Compare the Nephelometry with Turbidimetry. (5×5=25,
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