

[Total No. of Questions - 6] [Total No. of Printed Pages - 2]  
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**B. Pharmacy (Ayur.) 5th Semester Examination**  
**Pharmaceutical Analysis of Ayurvedic Drugs-II (NS)**  
**BPA-522**

**Time : 3 Hours**

**Max. Marks : 70**

*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 :** All questions are compulsory.

1. (i) What are the different varieties of Refractometers do you know?
- (ii) Hydrogen/Deuterium Discharge Lamp in UV Spectrophotometer.
- (iii) What is Beer's Law?
- (iv) Write briefly about IR.
- (v) In the double resonance procedures, why cannot a sweep of the static magnetic field be used to generate the spectrum?
- (vi) Classification of Chromatographic Methods.
- (vii) Adsorbents in Gas Solid Chromatography.
- (viii) Solid State sensors in pH instrumentation.
- (ix) Flame Ionization Detector in Gas Chromatography.
- (x) Sample Mounting Methods in UV spectrophotometry.

(2×10=20)

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2. Define pH, write the importance of pH. If you have been given the samples of Kanji and Apamarga Kshar, how you will measure the pH? Write the detailed procedure. (10)
3. Write in Detail about Flame Photometry and how it is useful in standardizing the Ayurvedic drugs. (10)
4. Compare the polarographic evaluation methods with respect to
  - (i) applicability to routine analysis of similar type of samples.
  - (ii) Routine analysis of widely varying composition but for the analysis of few constituents.
  - (iii) Occasional analysis of a wide variety of samples and for wide variety of constituents. (10)
5. (i) Write about Turbidimetry and its application.  
(ii) Write about Potentiometry in brief. (10)
6. Define chromatography and how you will identify the compounds in a given ethanolic extract by using any one of the chromatographic methods. (10)