

QP Code: 403008

Reg. No.....

**Final Year B. Pharm (Ayurveda) Degree Supplementary Examinations
April 2019**

Pharmaceutical Analysis II

Time: 3 hrs

Total Marks: 100

- Answer all questions
- Draw diagrams wherever necessary

Essays:

(2x10=20)

1. Explain the thermal analysis with regards to TGA and DSC.
2. Differentiate between atomic absorption and atomic emission spectroscopy. Explain flame photometry instrumentation in detail.

Short notes:

(10x5=50)

3. Applications of Fluorimetry and Phosphorimetry.
4. Sampling plans according to GLP.
5. Different detecting techniques as in T.L.C.
6. Different development techniques used in paper chromatography.
7. Instrumentation of Nephelometry in detail.
8. Advantages and disadvantages of dropping mercury electrode.
9. Factors affecting diffusion current.
10. Grating Monochromators.
11. Rotating disc phosphoroscope.
12. What is quality control. Give quality control parameters for "Asava" preparation.

Answer briefly:

(10x3=30)

13. Photo multiplier tube.
14. Conditions to get I.R. spectra.
15. Principle of NMR in brief.
16. Give three applications of NMR in brief.
17. Types of peaks according to mass spectroscopy.
18. Types of papers or stationary phase used in paper chromatography.
19. Define chromatography.
20. Define R_f value.
21. What is reverse phase chromatography
22. Isocratic elution
