

QP Code: 403008

Reg. No.....

Final Year B. Pharm (Ayurveda) Degree Examinations October 2018

Pharmaceutical Analysis II

Time: 3 hrs

Total Marks: 100

- Answer all questions
- Draw diagrams wherever necessary

Essays:

(2x10=20)

1. Outline the principle behind NMR spectroscopy. Elaborate on factors which influence chemical shift.
2. Explain briefly about the instrumentation of HPLC with neat diagram.

Short notes:

(10x5=50)

3. Dropping mercury electrode.
4. Explain gel filtration technique.
5. Theory behind polarographic analysis.
6. Explain various types of burners used in flame photometry.
7. GLP.
8. Sources of zone broadening in chromatography.
9. Gel electrophoresis.
10. Explain about hollow cathode lamp.
11. Types of electronic transitions in UV spectroscopy.
12. The factors influencing fluorescence intensity.

Answer briefly:

(10x3=30)

13. Paper electrophoresis.
14. Polarographic maxima.
15. Bathochromic shift and hypsochromic shift.
16. Relaxation process in NMR.
17. Criteria for IR absorption.
18. Differentiate adsorption chromatography and partition chromatography.
19. Filters.
20. Interference in AAS.
21. Types of development techniques in paper chromatography.
22. Rheodyne injector.
