QP Code: 403008 **Reg. No……**

Final Year B. Pharm (Ayurveda) Degree Supplementary Examinations, April 2017

Pharmaceutical Analysis II

Time: 3 hrs **Total Marks: 100**

- Answer all questions
- Draw diagrams wherever necessary

Essays: (2x10=20)

1. Give an account on the principle of mass spectroscopy. Explain the type of fragmented ions.
2. Describe the principle and application of flame emission spectroscopy.

Short notes: (10x5=50)

3. Explain the principle and instrumentation of capillary electrophoresis.
4. The applications of fluorimetry.
5. Compare the principle and working of DSC and DTA.
6. Any two detectors used in HPLC with neat diagram.
7. Types of analyzers used in mass spectroscopy.
8. The choice of solvent and solvent effect in absorption spectroscopy.
9. Explain different parts in HPLC with block diagrams.
10. Detectors used in atomic absorption chromatography.
11. Explain the types of vibrations in IR spectroscopy.
12. Different ionization methods in mass spectroscopy.

Answer briefly: (10x3=30)

13. Define – capacity factor, retention time, retention volume.
14. Mull technique used in IR spectroscopy.
15. Types of monochromators used in UV spectroscopy.
16. Half wave potential.
17. Relationship between absorption and transmittance.
18. Isosbestic point.
19. Sources of UV light.
20. Self-quenching.
21. What is stokes and antistoke fluorescence.
22. What is wave number.

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