

**QP CODE: 112329**

**Reg. No:.....**

**First Semester M.pharm Degree Examinations April 2018**

**M.Pharm (Pharmaceutical Analysis)**

**Paper II: Advanced Pharmaceutical Analysis (MPA 102T)**

**Time: 3 Hours**

**Total Marks: 75**

- Answer all Questions.
- Draw Diagrams wherever necessary.

**Essays**

**(3x10=30)**

1. Explain types of residual solvents and analytical procedure to determine them as per ICH guidelines
2. Discuss on elemental impurities and their detection methods
3. Explain profiling of impurities as per guidelines

**Short Notes**

**(9x5=45)**

4. Principle and application of luminescence immunoassays
5. Biological assays of adsorbed tetanus vaccine
6. Accelerated stability testing and shelf life calculation
7. Factors affecting reaction rates and stability of drugs
8. Characterization of degradation products
9. Phyto-pharmaceuticals - regulatory requirements and protocols for stability testing
10. Radioimmunoassay
11. HPTLC finger printing of phyto-pharmaceuticals
12. Sampling, storage and recording of results in stability testing protocols.

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