QP CODE: 302326	Reg. No:
-----------------	----------

Third Year Pharm D Degree Supplementary Examinations January 2020

Pharmaceutical Analysis

Time: 3 Hours Total Marks: 70

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essays (3x10=30)

- How is a new analytical method for a drug product validated as per ICH guidelines.
 Explain in detail.
- 2. List and explain various development techniques in paper chromatography.
- 3. Explain deviation from Lambert Beer's law

Short notes (8x5=40)

- 4. Enlist and briefly explain the elements of good laboratory practices.
- 5. Column development techniques in column chromatography.
- 6. What is ion exchange chromatography. Explain its principle and factors affecting the same.
- 7. What are the types of electrophoresis. Explain.
- 8. Define molar conductance, specific conductance, resistance, cell constant and equivalence conductance.
- 9. Define λmax. What are the various shifts observed in λmax
- 10. Why fluorometric analysis is more specific than UV spectrometric analysis.

 Differentiate a fluorimeter and UV spectrophotometer.
- 11. What are the various types of peaks observed in a mass spectrum. List their analytical applications
