

[LE 805]

APRIL 2014

Sub. Code: 3805

**DOCTOR OF PHARMACY (PHARM. D) DEGREE EXAMINATION****FIRST YEAR****PAPER V – PHARMACEUTICAL INORGANIC CHEMISTRY***Q.P. Code: 383805***Time: Three Hours****Maximum: 70 marks****Answer All questions****I. Elaborate on:****(2 x 20 = 40)**

1. a) Explain the various steps involved in Gravimetric analysis.  
b) Explain the theory of acid-base indicators.
2. a) Explain the principle and procedure involved in the limit test for Arsenic with neat labeled diagram of the apparatus.  
b) Write notes on Non-aqueous titration.

**II. Write notes on:****(10 x 3 = 30)**

1. How will you prepare and standardize 0.1 N Sodium hydroxide.
2. Explain the different types of Complex metric titration.
3. Describe in detail about Henderson-Hasselbalch equation.
4. Write a note on the assay and uses of calcium gluconate.
5. Describe the principle involved in volhard's method.
6. What are antacids? Classify them with examples.
7. Explain the physiological role of zinc.
8. What are antidotes? Explain about any one antidote.
9. Write a note on purified water & water for injection.
10. Write molecular formula and uses of the following:
  - a) Hydrogen peroxide.
  - b) Ferric sulphate.
  - c) Potassium citrate.

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