

[LA 805]

APRIL 2012

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: 100 marks****Answer ALL questions in the same order.****I. Elaborate on :**

Pages (Max.)	Time (Max.)	Marks (Max.)
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|---|----|---------|----|
| 1. Explain the sources of impurities with examples.<br>Discuss on the principle involved in the limit test<br>for iron and lead                   | 17 | 40 min. | 20 |
| 2. Explain on physiological acid – base balance and its<br>importance. Briefly discuss on any five electrolytes used<br>in acid – base imbalance. | 17 | 40 min. | 20 |

**II. Write notes on :**

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| 1. Any one preparation and Assay of boric acid.  | 4 | 10 min. | 6 |
| 2. Theory and solvents used in non- - aqueous titration.   | 4 | 10 min. | 6 |
| 3. What is EDTA? write its structure and importance in<br>complexometric titration                               | 4 | 10 min. | 6 |
| 4. Role of copper as an essential element  | 4 | 10 min. | 6 |
| 5. Co-precipitation and post precipitation   | 4 | 10 min. | 6 |
| 6. Use of adsorption indicators in precipitation titration   | 4 | 10 min. | 6 |
| 7. Labeling of radiopharmaceuticals, handling and storage of<br>radioactive materials                            | 4 | 10 min. | 6 |
| 8. Determinate and indeterminate errors  | 4 | 10 min. | 6 |
| 9. What is antidote? Classify them. Explain the action of<br>sodium nitrite as an antidote in cyanide poisoning. | 4 | 10 min. | 6 |
| 10. Medicinal uses of carbon dioxide and nitrous oxide.  | 4 | 10 min. | 6 |

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