

**FACULTY OF PHARMACY****Pharm. D I-Year (6-YDC) (Main & Backlog) Examination, August 2016****Subject : Pharmaceutical Inorganic Chemistry****Time : 3 Hours****Max. Marks: 70****Note: Answer all questions from Part - A and answer any five questions from Part-B.****PART – A (10 x 2 = 20 Marks)**

- 1 Write the ideal properties of antacids.
- 2 What is an impurity? How the impurities are reduced in pharmaceutical preparation?
- 3 Define an Error. What are the different types of errors?
- 4 Calculate the normality for 250 ml solution containing 10 gm of Calcium carbonate.
- 5 Write the principle involved in the Mohr titration method.
- 6 What is the Law of Mass Action?
- 7 Write the physiological role of Zinc as an essential trace element.
- 8 Mention the method of preparation of "Milk of magnesia".
- 9 Give one preparation method and uses of Hydrogen peroxide.
- 10 What are pharmaceutical aids? Give classification with examples.

**PART – B (5 x 10 = 50 Marks)**

- 11 Explain in detail about the neutralization curve for the following titrations with calculation of equivalence point and PH.  
(a) Strong acid – Strong base (5)  
(b) Weak acid – Strong base (5)
- 12 (a) Explain how the end point is detected in Complexometric titrations. (5)  
(b) Write a note on theories of indicators. (5)
- 13 (a) Give the general procedure for the limit test of iron. (5)  
(b) Write the preparation and uses of oxygen and carbon-dioxide. (5)
- 14 (a) Explain the mechanism of action of anti-microbial agents with examples. (5)  
(b) Discuss the role of sodium fluoride in Dental caries. (5)
- 15 (a) Give the importance of chloride ions in Replacement therapy. (5)  
(b) What is gravimetric analysis? What are the factors influencing the solubility of precipitation in gravimetric analysis. (5)
- 16 Write a note on Limit test for Arsenic with a neat labeled diagram. (10)
- 17 (a) What are Expectorants? Write the mechanism of action with examples. (5)  
(b) Write the preparation, properties and uses of purified water. (5)
- 18 What are Radio pharmaceuticals? Write about its properties and add a note on units used for its measurement. (10)

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