

FACULTY OF PHARMACY**Pharm. D (6 YDC) I-Year (Main) Examination, July 2017****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 Calculate the normality for 500 ml solution containing 4 gm of sodium hydroxide
- 2 Define accuracy and precision.
- 3 What are co-precipitation, occlusion and post-precipitation?
- 4 Distinguish Iodometry and Iodimetry.
- 5 What is Mohrs method?
- 6 Explain the use of fluorides as Anticaries agents.
- 7 What is an impurity ? How inorganic impurities are reduced in pharmaceutical preparation?
- 8 Write about electrolyte replenishes.
- 9 Write the mechanism of action and uses of sodium bisulphate.
- 10 What is an Arrhenius acid and Arrhenius base? Give an example of each.

PART – B (5 x 10 = 50 Marks)

- 11 Explain in detail about the neutralization curve for the following titration with calculation of equivalence point and pH.
 - (a) Strong acid-Strong base
 - (b) Weak acid-Weak base
- 12
 - (a) Write about the different types of acidifiers and give their examples.
 - (b) Write the method of preparation, properties and uses of calcium carbonate.
- 13
 - (a) What are antimicrobials?
 - (b) Write the method of preparation, assay and uses of potassium permanganate and silver nitrate.
- 14 What is an antidote? Write the method of preparation, assay and uses of sodium meta bisulphite.
- 15 Explain about the physiological role of Copper and Iodine.
- 16
 - (a) Give the general procedure for the limit test of sulphates.
 - (b) Write the preparation and uses of oxygen and carbon-dioxide.
- 17
 - (a) What is replacement therapy? Write the importance of calcium in the body.
 - (b) Mention the method of preparation, assay and uses of calcium chloride.
- 18
 - (a) Write about the clinical applications of Radiopharmaceuticals.
 - (b) Define and classify Pharmaceutical aids.
