

B.Pharm I Year (R13) Supplementary Examinations December 2017

PHARMACEUTICAL INORGANIC CHEMISTRY

Time: 3 hours

Max. Marks: 70

PART – A

(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- Define limit test and test for purity.
 - Why is thioglycollic acid used in iron limit test?
 - Define normality and molality.
 - Define indicator with suitable examples.
 - Give the composition and uses of Ringer's solution.
 - Give the composition and uses of ORS.
 - Give the composition and uses of calamine and talc.
 - Define pharmaceutical aid with suitable examples.
 - Give the structure and uses of sodium aurothiomalate.
 - Give the composition and uses of magnesium trisilicate.

PART – B

(Answer all five units, 5 X 10 = 50 Marks)

UNIT – I

- 2 Explain various sources of impurities that occur in the pharmaceutical compounds with suitable examples.

OR

- 3 Explain the principle, reactions and apparatus involved in arsenic limit test IP.

UNIT – II

- 4 (a) Explain the principle, reactions, and procedure for the standardization of approximately 0.1 N KMnO_4 solution.
(b) Write the preparation and standardization of approximately 0.1 N perchloric acid solution.

OR

- 5 Define primary standard substance with examples and enlist their ideal properties.

UNIT – III

- 6 (a) Describe the method of preparation of ferric ammonium citrate.
(b) Write the principle and reactions involved in the assay of ferrous sulphate.

OR

- 7 Explain the principle and reactions involved in the assay of sodium chloride and calcium gluconate.

UNIT – IV

- 8 Write the principle and reactions involved in the assay of hydrogen peroxide and boric acid.

OR

- 9 (a) Write the composition of different iodine solutions with their uses.
(b) Write the principle and reactions involved in the assay of zinc oxide.

UNIT – V

- 10 (a) Explain the method of preparation of magnesium hydroxide mixture with equations.
(b) Give the principle, reactions, and procedure involved in the assay of sodium thiosulphate.

OR

- 11 Give the principle and reactions involved in the assay of copper sulphate and ammonium chloride.
