

VINAYAKA MISSION'S RESEARCH FOUNDATIONS, SALEM
(Deemed to be University)

Pharm.D DEGREE EXAMINATION - July 2019
First Year

PHARMACEUTICAL INORGANIC CHEMISTRY

Time: Three hours

Maximum: 70 marks

I. Write essays on any **TWO** questions: (2 x 15 = 30)

1. Elaborate the principle and procedures involved in the limit test for arsenic and lead.
2. a) Summarize the preparation of 0.1M perchloric acid solution . (5)
b) outline the types of solvents used in non aqueous titration. (10)
3. a) Describe the methods used to measure and detect radioactivity . (10)
b) Summarize the monograph of I¹³¹ . (5)

II. Write short answers on any **SIX** questions: (6 x 5 = 30)

4. What is ceriometry? Explain its advantage over other oxidizing agents
5. Explain the theory of acid base indicators with suitable examples
6. Explain the role of fluorides as anticaries agents.
7. Discuss sources of impurities in pharmaceutical substances.
8. Give the preparation, medicinal uses and storage condition of oxygen and nitrous oxide.
9. What are antimicrobials? Write the preparation and assay of chlorinated lime.
10. Briefly explain saline cathartics.
11. Outline the principle and procedure involved in gravimetric analysis with any one pharmaceuticals.

III. Write short notes on any **FIVE** question: (5 x 2 = 10)

12. Define ligands and give examples.
13. Write the role of chloride ion as electrolyte.
14. Recall the chemical reactions for assay of ammonium chloride by modified volhard's method.
15. What are essential and trace ions? Give examples
16. Write the uses of a) Zinc stearate b) Potassium citrate.
17. Define acidifiers with examples.
