

- **QP CODE: 105326**

Reg. No:.....

First Pharm D Degree Examinations - September 2012

Pharmaceutical Inorganic Chemistry

Time: 3 Hours

Total Marks: 70

- **Answer all questions**
- **Write equations and draw diagrams wherever necessary**

Essay:

(2x10=20)

1. Mention the composition of Ringer's solution and its specific uses. Explain the method of preparation of sodium acetate and mention the physiological role of phosphate & calcium ions.
2. Why iron is an impurity in pharmaceuticals. Discuss the principle and procedure involved in the limit test for iron

Short notes:

(10x3=30)

3. What are abrasives. How do you prepare and assay zinc chloride.
4. What are redox titrations. Explain with example
5. solubility products
6. Mention the method of preparation and assay of magnesium sulphate
7. Dimethicone
8. Explain the preparation, storage and labeling requirement for hydrogen peroxide
9. What are antidotes. How sodium nitrite acts as antidote
10. Briefly explain the assay of oxygen IP
11. Explain the precipitation titrations with an example
12. How do you prepare the following solutions
 - 0.1 M potassium permanganate (MW= 158) • 0.1 N oxalic acid (MW= 90)

Answer briefly:

(10x2=20)

13. What are the precautions to be taken while storing radiopharmaceuticals.
14. How do you prepare 50.0 ml of 0.25M NaOH (Molecular weight=40)
15. How oxygen is stored and labeled.
16. Classify antacids giving example
17. Name one systemic antacid and give its drawback
18. Mention any two preparation of sodium chloride mentioned in IP
19. What is the role of granular zinc in arsenic limit test.
20. How do you prepare ferrous sulphate.
21. What is the physiological role of iron and iodine.
22. .Mention an example for •Anti dandruff drug •Haematinic