

Q.P.Code 5326

Reg. No.:.....

First PharmD Degree Examinations - September 2011

PHARMACEUTICAL INORGANIC CHEMISTRY

Time: 3 hrs

Max marks : 70

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

Essay

(2x10=20)

1. What are the pM indicators used in complexometric titrations. How is the endpoint detected using pM indicators. What are the physical methods of end point determination in complexometric titrations **(6+4=10)**
2. Explain the limit test for Iron. Explain the limit test for sulphates. **(6+4=10)**

Write Short notes

(10x3=30)

3. Describe Mohr's method of standardization of silver nitrate solution
4. What are biological hazards of radiation.
5. Explain the method of titration of halide salts of organic bases by non-aqueous titrations
6. What are the salient features of a redox titration curve. –
7. Give the principle behind the assay of ferrous sulphate by permanganometry.
8. What is the rationale behind the combination of both magnesium and aluminium salts in antacid formulations
9. Explain the mechanism by which saline cathartics work.
10. Describe the ignition and incineration step in gravimetric analysis.
11. What is a dentifrice. Give two examples.
12. How are the following tests performed in the medicinal gas 'oxygen'
 - test for oxidising substances
 - test for halogens
 - test for acidity or alkalinity

Write briefly

(10x2=20)

13. Give the chemical formula for plaster of paris. Give its use.
14. Give the formula of calcium-chloro-hypochlorite and mention its common name.
15. How does potassium permanganate act as anti-infective agent.
16. Give one pharmaceutical use for each of the following- strontium chloride and sodium fluoride.
17. Name four oxidising agents used as titrants.
18. One curie (unit of radio activity) is equal to how many becquerel.
19. What is an opacifying agent. Give one example.
20. Give the storage condition for the medical gas, 'carbon dioxide'.
21. Differentiate between accuracy and precision
22. What are essential trace elements. Give two examples
