

QP CODE: 5326

Reg. No:.....

First Year Pharm D Degree Supplementary Examinations - April 2012

Pharmaceutical Inorganic Chemistry

Time: 3 Hours

Total Marks: 70

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

Essay:

(2x10=20)

1. Explain the limit test for arsenic giving its principle and chemical reactions. Draw the diagram of apparatus used
2. What is electrolyte replacement therapy. Write conditions of this therapy and their management by electrolytes and fluids

Short notes:

(10x3=30)

3. What are acid base titrations. Explain with one example mentioning the primary standard, titrant and indicator used.
4. With an example explain complexometric titrations.
5. Explain the following terms in analysis • Blank titration • Back titration
6. How do you prepare sodium bicarbonate. What is the disadvantage of this drug as antacid.
7. How do you prepare aluminium hydroxide.
8. How physiological acid base balance is maintained.
9. Explain the mechanism of action of inorganic antimicrobials giving examples
10. Explain the term dental caries. What is the role of fluoride in caries.
11. Write the assay procedure for hydrogen peroxide and mention its uses
12. Explain the different theories of pH indicators

Answer briefly:

(10x2=20)

13. What are the ideal properties of a primary standard.
14. Brief the properties of oxygen and nitrous oxide
15. What are gastric acidifiers. In which condition they are used.
16. How dilute hydrochloric acid is prepared.
17. What are antidotes. Give examples
18. What precautions to be taken while handling radiopharmaceuticals.
19. What is the role of dilute nitric acid in chloride limit test.
20. What is adsorption capacity test for heavy kaolin.
21. Name two indicators used in complexometric titrations and their color change
22. How do you assay boric acid.
