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# Rajiv Gandhi University of Health Sciences, Karnataka I Year B.Pharm Degree Examination - Sep 2012

Time: Three Hours Max. Marks: 70 Marks

## PHARMACEUTICAL INORGANIC CHEMISTRY (Revised Scheme 3)

Q.P. CODE: 2605

Your answers should be specific to the questions asked Draw neat labeled diagrams wherever necessary

### LONG ESSAYS (Answer any Two)

 $2 \times 10 = 20 \text{ Marks}$ 

- 1. Explain the various sources of impurities in pharmaceuticals. Discuss the importance of limit tests in quality control of pharmaceuticals
- 2. Write in detail the principle and procedure involved in Mohr's, Volhard's and Fajan's methods
- 3. What are haematinics? List out the official compounds. Describe the method of preparation assay principle, storage condition and medicinal uses of any one of them

#### SHORT ESSAYS (Answer any Six)

 $6 \times 5 = 30 \text{ Marks}$ 

- 4. What are Dentifrices? Classify them with example. Write a note on role of fluoride as anticaries agent
- 5. Explain briefly the various theories of neutralization indicators
- 6. Discuss the detailed principle and reactions involved in the limit test for Arsenic
- 7. What are antacids? Classify them with examples. State requirements for an ideal antacid
- 8. Describe the various mechanism of action of inorganic anti-microbial agents
- 9. What are anti-dotes? Classify them with examples. Write a note on cyanide poisoning and its treatment
- 10. Discuss the role of O<sub>2</sub> and CO<sub>2</sub> in biological system
- 11. Explain the principle and procedure for the limit test for sulphates

#### **SHORT ANSWERS**

 $10 \times 2 = 20 \text{ Marks}$ 

- 12. Barium sulphate meal
- 13. What are expectorants? Give an example
- 14. Explain the term 'mEg'. Calculate the number of mEg of Nacl in one litre of 0.76% solution
- 15. What is the role of thioglycolic acid in iron limit test?
- 16. Preparation of Boric Acid
- 17. Explain the types of solvents used in Non-Aqueous Titrations
- 18. Differentiate between Iodometry & Iodimetry
- 19. Explain the importance of significant figures
- 20. Define a) Saline Cathartics b) Achlorhydria c) limit test d) Antiseptic
- 21. Give reasons a) Potassium Iodide is used in the assay of Copper Sulphate

b) HCHO used in the assay of NH<sub>4</sub>Cl

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