



Code No. 1143 / PCI

**FACULTY OF PHARMACY**

**B. Pharmacy I-Semester (PCI) (Main) Examination, January 2018**

**Subject : Pharmaceutical Inorganic Chemistry**

**Time : 3 Hours**

**Max. Marks: 75**

**Note: Answer all questions from Part – A, any two questions from Part – B and any seven questions from Part - C.**

**PART – A (10x2=20 Marks)**

**Answer All Questions. All Questions carry equal marks.**

- 1 Define i) Limit test ii) Assay.
- 2 What is an impurity? Mention the methods to purify inorganic substances.
- 3 Define Bronsted-Lowry acid and base.
- 4 List out the methods of adjusting isotonicity.
- 5 Write about oral rehydration salts.
- 6 What are dentifrices give some examples.
- 7 Define the terms i) expectorant ii) emetic.
- 8 What are antacids? Give some examples.
- 9 Write the uses of hydrogen peroxide.
- 10 List out various iodine preparations.

**PART – B (2x10=20 Marks)**

**Answer any TWO questions. All questions carry equal marks.**

- 11 Discuss about sources of impurities in pharmaceuticals.
- 12 (a) What are electrolyte replenishers? Write the method of preparation, assay and uses of sodium chloride.  
(b) What are anticaries agents? Explain the role of fluorides in preventing dental caries.
- 13 (a) Define and classify antimicrobial agents. Write their mechanism of action.  
(b) Write the method of preparation, assay and uses of ammonium chloride.

**PART – C (7x5=35 Marks)**

**Answer any SEVEN questions. All questions carry equal marks.**

- 14 Explain the principle and procedure involved in the limit test for sulphates.
- 15 What are haematinics? Mention the method of preparation, assay and uses of ferrous sulphate.
- 16 Write the composition of Ringer's solution. Explain its importance.
- 17 Define and classify cathartics. Add a note on magnesium sulphate.
- 18 What are antidotes? Explain about any one antidote used for cyanide poisoning.
- 19 Discuss the Labeling, handling and storage of Radiopharmaceuticals.
- 20 Discuss about physiological acid-base balance.
- 21 Give the method of preparation, assay and uses of copper sulphate.
- 22 Define astringent? Write the method of preparation and uses of zinc sulphate.

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