Roll No. | | | | | | | | | | | | |

Total No. of Pages : 02

Total No. of Questions : 13

B.Pharma (2017 & Onwards) (Sem.–1)

PHARMACEUTICAL INORGANIC CHEMISTRY

Subject Code : BP-104T

Paper ID : [74647]

Time : 3 Hrs. Max. Marks : 75

INSTRUCTIONS TO CANDIDATES :

1. **SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **SECTION-B contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.**
3. **SECTION-C contains NINE questions carrying FIVE marks each and students have to attempt any SEVEN questions.**

SECTION-A

Q.1 Write in brief about the following :

i) Principle involved in limit test of sulphate.

ii) Oral rehydration salt.

iii) Sodium thiosulphate as poison antidote.

iv) Hazards associated with radiopharmaceuticals.

v) Combination antacid preparations.

vi) Properties and medicinal uses of Kaolin.

vii) Expectorants.

viii) Assay of ferrous sulphate.

ix) Desensitizing agents.

x) Method of preparation of hydrogen peroxide.

SECTION-B

Q.2 What do you understand by the term impurity and limit test? Describe the various sources of impurities in pharmaceuticals. Give the principle and methodology of limit test of Arsenic.

Q.3 Give two examples of radiopharmaceuticals. Derive a mathematical expression by which you can calculate the activity of a radiopharmaceutical at time‘t’, if activity at 0 time is known to you.

Q.4 Describe functions of major physiological ions. Discuss physiological acid-base balance. Give methods of preparation and assay of calcium gluconate.

SECTION-C

Q.5 Describe the mechanism of antimicrobial agents.

Q.6 Write a note on electrolytes used in replacement therapy.

Q.7 What are acidifying agents and antacids? Explain Magnesium compounds as antacids.

Q.8 Write chemical properties and medicinal uses of potassium permanganate.

Q.9 What are astringents? Describe the astringent action of potash alum.

Q.10 Discuss the storage conditions of radioisotopes.

Q.11 Write assay procedure and method of preparation of sodium carbonate.

Q.12 Describe the chemical properties and uses of boric acid.

Q.13 Discuss the role of fluoride in the treatment of dental caries. Give one example.