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Roll Number ----- (Total Number of Questions 13) (Total number of Printed Pages 01)

Programme	B. Pharmacy
Semester	1 st
Subject	Pharmaceutical Inorganic Chemistry-I
Subject Code	BP104T
Paper ID	74647
Time	3Hours
Maximum Marks	75

Instructions to Candidates: No supplementary/continuation sheet will be issued to the candidates. Answer the questions precisely.

*Section A consists of Ten parts of 2 marks each (Objective Type); Attempt ALL.

**Section B consists of Three questions carrying 10 marks each (Long Answer); attempt any TWO.

*** Section C consists of Nine questions carrying 5 marks each (Short Answer); attempt any SEVEN.

Section A

(10 X 2 = 20)

1. Give very short answers to the followings (2 marks each):

i.	Define Acid in term of bronsted concept.
ii.	Write the role of nitric acid in Limit test of chloride.
iii.	Define Adsorbents.
iv.	Give full form and structure of EDTA.
v.	Define Emetics.
vi.	Write the assay of sodium bicarbonate.
vii.	What is the mechanism of antimicrobial agents?
viii.	Define and classify the protective agents.
ix.	Define Pharmaceutical buffers.
x.	What do you understand by Werner coordination number?

Section B

(2 X 10 = 20)

2.	Discuss different sources of impurities in pharmacopoeial substances. Give principle and procedure for limit test of sulphates.
3.	Discuss briefly about physiological acid base balance. Explain oral rehydration salt.
4.	Define and classify dentrifices according to their action. Discuss the method of preparation and assay of any two official preparations.

Section C

(7 X 5 = 35)

5.	Write a brief note on Haematinics.
6.	Discuss any two antidotes used for cyanide poisoning.
7.	Write a note on desensitizing agents.
8.	Give name for different types of water.
9.	Write a brief note on history of pharmacopoeia.
10.	What are Astringents? Discuss the properties & medicinal uses of Potash Alum.
11.	Explain buffer and buffer equation.
12.	What are expectorants and emetics?
13.	What are different kinds of topical agents? Discuss any one category.

Note: Disclosure of identity by writing mobile number or making request for passing on any page of answer-sheet will lead to UMC against the candidate.

Roll No.

Total No. of Questions : 13

Total No. of Pages : 02

**B.Pharm (2017 & Onwards) (Sem.-1)
PHARMACEUTICAL INORGANIC CHEMISTRY**

Subject Code : BP-104T

M. Code : 74647

Time : 3 Hrs.

Max. Marks : 75

INSTRUCTIONS TO CANDIDATES :

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

SECTION-A

1. Write in brief about the following :

- Define Acid in term of bronsted concept.
- What is lugo's solution?
- Define isotonic solution.
- What is antidote for cyanide poisoning?
- What are the uses of zinc sulphate solution?
- What is bentonite?
- What is radioactivity?
- Write composition and uses of Zinc eugenol cement.
- Define the purpose of limit test.
- What are acidifiers?

SECTION-B

- Write detailed note on sources and types of impurities in pharmaceutical substances.
- Discuss briefly about physiological acid base balance. Explain oral rehydration salt.
- Write in detail limit test for iron and arsenic.

SECTION-C

- Write in detail about precautions and pharmaceutical applications of radioactive substances.
- What are expectorant and emetics?
- Give an account on antacids. Describe the preparation of sodium bicarbonate.
- Briefly describe about role of fluorides in the treatment of dental caries.
- Discuss mechanism and classification of antimicrobials. Give preparation of hydrogen peroxide.
- Discuss principle and method involved in limit test for lead.
- What are Heamimies? Discuss pharmacopoeial assay of ferrous sulphate.
- Discuss functions of major physiological ions.
- Write down brief note on history of pharmacopoeia.

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SECTION-A

Q.1 Write in brief about the following :

- Principle involved in limit test of sulphate
- Oral rehydration salt.
- Sodium thiosulphate as poison antidote.
- Hazards associated with radiopharmaceuticals.
- Combination antacid preparations.
- Properties and medicinal uses of Kaolin.
- Expectorants.
- Assay of ferrous sulphate.
- Desensitizing agents.
- 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.

