



Your Roll No.....

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School of Pharmaceutical Education and Research
B. Pharm. I-Semester-End term Examination (2023-24)

Subject: Pharmaceutical Inorganic Chemistry
Paper Code: BP104T

Date: 18-03-24

Time: Three hours
Maximum Marks: 75

(Write your Roll No. on the top immediately on receipt of this question paper)

Note: This paper has 3 sections A, B and C. Attempt all the three sections.

Section A: Answer all the questions;

Section B: Answer any 2 out of 3 questions;

Section C: Answer any 7 out of 9 questions.

Abbreviations Used:

CO-Course Outcome, PO - Program Outcome, BTL - Bloom Taxonomy Level: BT level 1 - Remember; BT level 2 - Understand; BT level 3 - Apply; BT level 4 - Analyze; BT level 5 - Evaluate; BT level 6 - Create.

SECTION A

Very Short Type Questions (Attempt all)

1x20 = 20 Marks

Q. No	Question	BTL	CO	PO
1.	Define monographs.	1	1	1
2.	How many editions of Indian pharmacopeia has been published till date?	1	1	1
3	Write the year of publication of third edition of Indian pharmacopeia.	1	1	1
4	What is the freezing point of 0.9% w/v NaCl solution?	1,2	3	2
5	Define assay of drugs?	1,2	2	2
6	Write the role of HNO ₃ in limit test for chloride.	3	3	3
7	What is the role of lead acetate cotton plug in Gutzeit apparatus?	2,4	3	3
8	Why 2% boric acid solution is not isotonic with blood?	4	3	3
9	How will you perform limit test for sulphate for KMnO ₄ .	4	4	4
10	Define buffer capacity.	1	5	5
11	Write limitations of Arrhenius concept of acid and base.	2	1	1
12	Define hypercalcemia and hyperkalemia.	1	2	2
13	What is the principle of assay of calcium gluconate?	1	3	3
14	Write any two uses of ammonium chloride.	3,4	3	2
15	Define Astringents.	3,6	2	2
16	Give two examples of antiseptic agents.	1,6	2	2
17	Define half-life of radioactive substances.	1	6	6
18	Write two uses of barium sulphate.	1,6	3	3
19	Give two examples of chemical antidotes.	1,6	4	4
20	Define Emetics with example.	1	5	5

SECTION B

Long type Questions (Attempt any 2 out of 3)

10x2= 20 Marks

Q. No	Question	BTL	CO	PO
1.	Write short notes on any two- i) Physiological acid base balance ii) Zinc eugenol cement iii) Classify antimicrobials with suitable example	1,2,3, 4	2-6	2-6
2	Why the limit test is a semi quantitative analysis? Discuss the principle, reactions and method involved in the limit test for lead and arsenic.	1,2,3, 4	2-6	2-6
3	Give a detailed notes on method of measurement and adjustment of isotonicity of solutions.	1,2,3, 4	3, 5, 6	3, 5, 6

SECTION C

Short-type Questions. (Attempt any 7 out of 9 questions)

5x7= 35 Marks

Q. No	Question	BTL	CO	PO
1.	Discuss the role of fluoride ion in the treatment of dental caries. Write properties, identification test and uses of sodium fluoride.	2,3	3	3
2.	Write in detail about properties, uses and assay of hydrogen peroxide	1,2,3, 5	1, 3, 6	1, 3, 6
3.	Discuss the measurement of radioactivity. Give detail about Geiger-Muller counter.	2,3,4	1, 3, 6	1, 3, 6
4.	What are expectorants? Discuss the mode of action, properties and uses of ammonium chloride as an expectorant.	3,5	1, 3, 6	1, 3, 6
5.	Write a short note of combinations of antacids with examples.	2, 4	3, 5, 6	3, 5, 6
6.	Classify antidotes with examples. Write properties, uses and assay of sodium thiosulphate.	2, 3	3, 5, 6	3, 5, 6
7.	Enumerate various sources and types of impurities present in pharmaceutical substances.	2, 3	3, 5, 6	3, 5, 6
8.	What are hematinic? classify them with suitable examples. Write properties and uses of ferrous gluconate.	1,2,3, 6	3, 4, 5	3, 4, 5
9.	Write the method of preparation and assay of sodium bicarbonate.	1,2,3	3, 5, 6	3, 5, 6

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