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I/IV B. PHARMACY (Supple) EXAMINATIONS, DECEMBER - 2022
First Semester

PHARMACEUTICAL INORGANIC CHEMISTRY

(Effective from the admitted batch 2017-18)

Time : Three Hours

Maximum : 75 Marks

SECTION - A

Answer any FIVE Questions.

5x10 = 50 M

1. Explain the principle and procedure involved in the limit test with a neat labelled diagram of Gutzeit's apparatus.
2. Describe buffer capacity, stability of buffers, methods of adjusting isotonicity. Explain the mechanism of buffer action.
3. What are antacids ? Classify them with examples. Give the ideal properties of antacids. Write the preparation, assay and uses of sodium bicarbonate.
4. Explain the method of preparation and assay of ammonium chloride.
5. Write the construction, working principle of the Geiger - muller counter with a neat labelled diagram.
6. Define anti-microbial agents. Write the principle involved in the preparation and assay of hydrogen peroxide.
7. Explain the various sources of impurities in pharmaceuticals. Discuss the importance of limit tests in quality control of pharmaceuticals.

SECTION - B

Answer any FIVE Questions.

5x5 = 25 M

8. What do you mean by the term monograph ? What are the contents of monograph in detail.
9. What are buffers derive from the Henderson - Hasselbalch equation for buffers.
10. Explain the preparation, assay principle, storage conditions and medical uses of calcium gluconate injection.
11. Describe the method of preparation and uses of any two dental products.
12. What are gastrointestinal protectives and absorbents. Write a short note on kaolin.
13. Write the preparation and uses of chlorinated lime and boric acid.
14. Explain the diagnostic and therapeutic applications of radioisotopes in detail.



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I/IV B. PHARMACY DEGREE EXAMINATIONS, JULY - 2022

First Semester

PHARMACEUTICAL INORGANIC CHEMISTRY

(Effective from the admitted batch of 2017-18)

Time : Three Hours

Maximum : 75 Marks

SECTION - A

Answer any FIVE Questions.

5x10 = 50 M

1. a) Discuss the various sources of impurities.
b) Licit test for Sulphates.
2. a) Discuss the methods of adjusting toxicity.
b) Functions of major physiological ions.
3. a) Write the role of buffers in pharmacy.
b) Write a note on dentifrices.
4. Give the method of preparation, properties and uses of following compounds.
a) Calcium gluconate.
b) Sodium fluoride.
5. a) What are Antacids ? Give the ideal properties of Antacids.
b) Preparation, properties and uses of Chlorinated lime.
6. Define Haematnic. Write the preparation, properties and assay of Ferrous Sulphate.
7. a) Explain about storage handling and precautions of radioactive materials.
b) Discuss the properties of α , β and γ radiations.

SECTION - B

Answer any FIVE Questions.

5x5 = 25 M

8. Discuss the preparation, properties and uses of Ammonium Chloride.
9. Give the principle involved in modified limit test for Chlorides.
10. Classify antimicrobial agents ? Explain their mechanism of action.
11. Write a note on precautions and pharmaceutical applications of radioisotopes.
12. Give a short note on ORS.
13. Define astringent. Add a note on their mechanism of action.
14. Write a note on bentonite.



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**I/IV B. PHARMACY (SUPPLE) DEGREE EXAMINATIONS,
JANUARY - 2022**

First Semester

PHARMACEUTICAL INORGANIC CHEMISTRY

(Effective from the admitted batch 2017-18)

Time : Three Hours

Maximum : 75 Marks

SECTION - A

Answer any FIVE Questions.

5x10 = 50 M

1. a) Define Pharmacopoeia. Explain history of pharmacopoeia.
b) Describe the limit test for lead.
2. a) Explain about the major extra and intracellular electrolytes.
b) Physiological acid base balance.
3. Write a note on
a) Isotonic solution.
b) Buffer capacity.
4. a) Give the ideal properties of antacids. Why combination of antacids are given ?
b) Write a note on cathartics with examples.
5. Define emetic. Write the method of preparation, properties and uses of Copper Sulphate.
6. What are haematinics. Give the method of preparation, properties and assay of Ferrous Sulphate.
7. Describe the storage, handling, precautions and applications of radioactive substances.

SECTION - B

Answer any FIVE Questions.

5x5 = 25 M

8. What are the sources of impurities and explain briefly.
9. Describe the various methods of adjusting isotonicity.
10. Give the principle involved in limit test for Arsenic.
11. Write about Dentifrices with examples.
12. What are acidifiers with examples.
13. Explain the modified limit test for chlorides.
14. Describe the mechanisms of action of Antimicrobials.



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I/IV B.PHARMACY (Regular) DEGREE EXAMINATIONS, FEBRUARY-2020

First Semester

B.PHARMACY

PHARMACEUTICAL INORGANIC CHEMISTRY

(Effective from the admitted batch 2017-18)

Time: Three Hours

Maximum marks:75

SECTION-A

Answer any FIVE Questions

5X10=50M

1. a) What is meant by pharmacopoeia? Describe the history of pharmacopoeia.
b) Explain the principle and procedure involved in limit test for Iron.
2. a) Write the types of buffer solutions and its properties.
b) Explain the mechanism of buffer action and importance in pharmacy.
3. a) Classify the inorganic compounds acting as gastrointestinal agents giving examples.
b) Write a note on saline cathartics.
4. a) What are expectorant? How do they act?
b) Write an account of preparation, properties and assay of ammonium chloride.
5. Describe the important functions of major Intra and extra cellular electrolytes in the body.
6. What are antidotes? Explain the mechanism of action of antidotes in poisoning. Discuss the methods of preparation, uses and assay of sodium thiosulphate.
7. Write short notes on
 - a) Geiger muller counters
 - b) Scintillation counters.

SECTION-B

Answer any FIVE Questions

5X5=25M

8. Explain the modified limit test for chlorides and sulphates.
9. Write a note on physiological acid base balance.
10. Write the preparation, properties, uses of potassium permanganate.
11. What is Dentifrice? Give the preparation, properties uses of calcium carbonate.
12. Give method of preparation, uses , assay of copper sulphate.
13. Describe the source and biological importance of Iron.
14. What is meant by half life of radio element. Discuss the various units of radioactivity.



I/IV B.PHARMACY (Supply) DEGREE EXAMINATIONS, AUGUST-2019**First Semester****B.Pharmacy****PHARMACEUTICAL INORGANIC CHEMISTRY****(Effective from the admitted batch 2017-18)****Time: Three Hours****Maximum marks:75****SECTION-A****Answer any FIVE Questions.****5X10=50M**

1. a) Discuss the importance of limit test in pharmaceutical preparations.
b) Write the principle and procedure involved in the limit test for Iron.
2. a) What is meant by physiological buffers? Explain the mechanism of maintaining pH of blood.
b) Role of buffers in pharmacy.
3. a) State the requirements for an ideal Antacid? How is antacid property evaluated?
b) Give examples of saline laxatives. Compare their advantages and disadvantages.
4. a) Explain the mechanism of action of astringents.
b) Write the preparation, properties and uses of zinc sulphate.
5. Describe the electrolyte combination therapy.
6. Name the official compounds of Iron. Describe the preparation, properties and assay of Ferrous sulphate.
7. Discuss the applications of radio isotopes in research, diagnosis and medicine.

SECTION-B

Answer any FIVE Questions.

5X5=25M

8. Describe the principle and procedure involved in limit test for heavy metals.
9. Write a note on Oral rehydration salts.
10. Write the preparation, uses of Boric acid.
11. What is the role of fluoride as anticaries agent and write the preparation, properties, uses of sodium fluoride.
12. Give the preparation, properties, uses of sodium potassium tartrate.
13. What is the role of activated charcoal in poisoning.
14. What precautions have to be taken in handling of radio active materials.

