

**I/VI PHARM-D (REGULAR) EXAMINATIONS, DECEMBER - 2022**

**First Year**

**PHARMACEUTICAL INORGANIC CHEMISTRY**

---

**Time : Three Hours**

**Maximum : 70 Marks**

**Answer any FIVE Questions.**

**5x14 = 70 M**

**All Questions carry equal marks**

1. Write a note on Precipitation titrations.
2. Discuss limit test for Chlorides, Sulphates & Arsenic.
3. Explain about the preparation, Assay and uses for O<sub>2</sub>, CO<sub>2</sub> & N.
4. Explain about dental products.
5. Explain briefly about Antimicrobials.
6. Explain about Antacids & Errors.
7. Write a note on Miscellaneous Compounds for Potassium Bromide, Sodium nitrite, Sodium Thiosulphate & Charcoal.



Total No. of Questions : 8 ]

[ Total No. of Pages : 01

**I/VI PHARMA-D (REGULAR) DEGREE EXAMINATIONS, DEC- 2021**

**First Year**

**PHARMACEUTICAL INORGANIC CHEMISTRY**

Time : **Three Hours**

Maximum : **70 Marks**

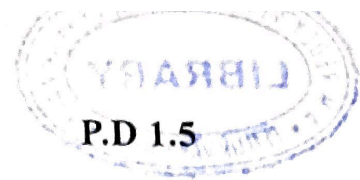
**Answer any FIVE Questions.**

**5x14 = 70 M**

**All Questions carry equal marks**

1. a) Describe the sources of impurities in pharmaceutical substances.  
b) List our various volumetric methods and explain back titration with example.
2. a) What is EDTA ? Write its structure and importance in complexometric titration.  
b) Add a note on role of copper as an essential element.
3. Explain in detail the  
a) Experimental techniques of gravimetric analysis.  
b) Principle and procedure involved in the limit test for sulphates.
4. a) Give the preparation, assay and uses of calcium gluconate.  
b) Write the storage and medicinal uses of oxygen, nitrous oxide and helium.
5. a) What is Volhard's method for estimation of halides ? Explain it taking a suitable example.  
b) Write the method of preparation and assay principle of magnesium hydroxide mixture.
6. Write brief on  
a) Radio Pharmaceuticals.  
b) Pharmaceutical aids.
7. a) What are antidotes ? Explain about any one antidote.  
b) Write the principle involved in the titration of very weak bases by non aqueous titration.
8. a) Define Acidifiers and explain the term "Achlorhydria". Give the preparation, assay and medicinal uses of Ammonium chloride.  
b) Explain in detail about the preparation, properties and medicinal uses  $\text{KMnO}_4$ .





Total No. of Questions :08]

[Total No. of Pages : 01

**I/VI Pharm.D (Regular) DEGREE EXAMINATIONS, JULY/AUGUST-2019**

**(Examination at the end of First year of 6 Year course)**

**PHARMACEUTICAL INORGANIC CHEMISTRY**

**Time: Three Hours**

**Maximum marks:70**

**Answer any FIVE questions.**

**All questions carry equal marks.**

**5X14=70M**

1. Write short notes on
  - a) Sources of impurities
  - b) Indian Pharmacopoea
2. Write method of preparation, tests for purity and assay of
  - a) Calcium gluconate injection
  - b) Ferrous sulfate
3. Discuss the principle, chemistry and procedure involved in limit test for
  - a) Chloride
  - b) Iron
  - c) Lead
4. What are medicinal gases? Write in detail on any two of them.
5. Write in detail on
  - a) Pharmacopoeia and monograph
  - b) Oral rehydration therapy
6. What are redox titrations. Discuss the principle, procedure and applications of redox titrations.
7. Write short notes on
  - a) Disinfectants
  - b) Radio-opaque agents
8. Write in detail on acidifiers.



**I/VI Pharm.D (Regular/Supply) DEGREE EXAMINATIONS, SEP-2018**  
**(Examination at the end of First Year of 6 Year Course)**

**Pharm.D**

**PHARMACEUTICAL INORGANIC CHEMISTRY**

**Time: Three Hours**

**Maximum marks:70**

**Answer any FIVE questions.**

**All questions carry equal marks.**

**5X14=70M**

1. Write short notes on
  - a) Systemic errors
  - b) Primary standards
  - c) Indicators for complexometric Titrations
2. Write method of preparation, tests for purity and assay of
  - a) Calamine lotion
  - b) Calcium gluconate injection
3. Discuss the principle, chemistry and procedure involved in limit test for
  - a) Arsenic
  - b) Iron
  - c) Calcium
4. What are medicinal gases? Write in detail on any two of them.
5. Write in detail on
  - a) Pharmacopoeia and monograph
  - b) Oral rehydration therapy
6. Enumerate essential trace elements and explain their biological significance. Write in detail on any two agents in this category.
7. Write short notes on
  - a) Antiseptics
  - b) Saline cathartics
8. Write in detail on principle, procedure and pharmaceutical applications of gravimetric analysis.

**I/VI PHARM.D (Regular) DEGREE EXAMINATIONS, JULY/AUGUST- 2017****(Examination at the end of First year of 6 Year course)****Paper V- PHARMACEUTICAL INORGANIC CHEMISTRY****Time: Three Hours****Maximum marks:70****Answer any FIVE questions.****All questions carry equal marks.****5X14=70M**

1. Write short notes on

~~a)~~ Solvents used in non-aqueous titrations~~b)~~ Indicators for acid-base titrations~~c)~~ Random errors

2. Write method of preparation, tests for purity and assay of

a) Zinc sulfate

~~b)~~ Calcium carbonate

3. Discuss the principle, chemistry and procedure involved in limit test for

a) Chloride

~~b)~~ Lead

c) Sulfate

4. What are antimicrobial agents? Write in detail on any two of them.

5. Write in detail on pharmaceutical aids used as antioxidants, binders and buffers.

6. What are redox titrations. Discuss the principle, procedure and applications of redox titrations. Add a note on self-indicator reactions.

7. Write short notes on

a) Disinfectants

b) Radio-opaque agents

8. Write in detail on acidifiers.

**I/VI Pharm.D DEGREE EXAMINATIONS, AUGUST/SEPTEMBER-2016****PAPER-V****PHARMACEUTICAL INORGANIC CHEMISTRY****Time: Three Hours****Maximum marks:70****Answer any FIVE questions.****All questions carry equal marks.****5X14=70M**

1. a) Define Errors & classify them.  
b) How do you minimize or rectify errors. Explain.
2. a) Write the theory of indicators.  
b) Explain theory & applications of redox titrations.
3. Explain the theory and applications of Precipitation titrations.
4. Define Gravimetry and explain the steps involved in it with possible diagrams & give its applications and limitations.
5. a) Write down the procedure & apparatus setup involved in limit tests for Arsenic.  
b) Write a brief note on Radio pharmaceuticals and their applications in pharmacy.
6. Classify the dental products with a monograph of any one under each class.
7. a) Write the limit test for chlorides & Iron.  
b) Give a note on masking & demasking agents.
8. Give a brief note on
  - a) Acidifiers
  - b) Antacids
  - c) Essential trace elements.