

Code: 14T00105 / T0810005

Pharm.D I Year Advanced Supplementary Examinations January 2018

**PHARMACEUTICAL INORGANIC CHEMISTRY**

(For 2016 and prior to 2016 admitted batches only)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions  
All questions carry equal marks

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- 1 (a) Give the preparation, assay and uses of calcium gluconate.  
(b) What is EDTA? Write its structure and importance in complexometric titration.
- 2 (a) Explain various types of errors in quality control.  
(b) Explain about various theories of indicators.
- 3 (a) What are antacids? Give the classification and ideal qualities of antacids.  
(b) Give the preparation, identification test, assay and medicinal uses of aluminum hydroxide gel and magnesium carbonate.
- 4 (a) What is gravimetric analysis? Discuss the steps involved in gravimetric analysis.  
(b) Write a note on labeling of radiopharmaceuticals, handling and storage of radioactive materials.
- 5 (a) Write theory and solvents used in non-aqueous titration.  
(b) Write a note on the preparation assay and uses of Boric acid.
- 6 (a) What are cathartics? Give an example.  
(b) Discuss on the principle involved in the limit test for iron and lead.
- 7 (a) Describe the principle involved in Mohr's method.  
(b) Write a note on co-precipitation and post precipitation.
- 8 (a) What is volumetric analysis? Explain different methods.  
(b) Explain different types of redox titration with suitable example.

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Code: 17T00105

Pharm.D I Year Advanced Supplementary Examinations April 2022

**PHARMACEUTICAL INORGANIC CHEMISTRY**

(For 2017, 2018, 2019 & 2020 admitted batches only)

Time: 3 hours

Max. Marks: 70

**PART – A**  
(Compulsory Question)

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- 1 Answer the following: (10 X 02 = 20 Marks)
- (a) Define and classify errors with examples.
  - (b) Write the different methods of expressing concentrations of solution.
  - (c) Enumerate with examples of different types of solvents used in non-Aqueous titration.
  - (d) What is complexometric titration? Give examples.
  - (e) What is limit test? Mention its importance.
  - (f) Write the preparation of helium.
  - (g) Define antacid and write the quality of ideal antacid.
  - (h) Write the physiological role of copper.
  - (i) Write the preparation and uses of zinc stearate.
  - (j) Write the assay of boric acid.

**PART – B**  
(Answer all five units, 5 X 10 = 50 Marks)

- 2 Explain in brief theory of indicators. Write a note on mixed and universal indicators.
- OR**
- 3 Explain in detail neutralization curves with examples.
- 4 What are non-aqueous titrations? Explain the titration of weak acid and add a note on indicators used.
- OR**
- 5 Explain in detail theory of indicators.
- 6 Write the principle, procedure in limit test for sulphates and lead.
- OR**
- 7 Write a note on various steps involved in gravimetric analysis. Mention its pharmaceutical applications.
- 8 Explain the preparation, assay and uses for potassium bicarbonate and sodium chloride injection.
- OR**
- 9 Write a note on electrolyte combination therapy.
- 10 What are radiopharmaceuticals? Write a note on measurement of radioactivity and mentions its clinical application and precautions.
- OR**
- 11 What are expectorants and sclerosing agents? Write the preparation, assay and uses of potassium iodide and hypertonic saline.

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**PHARMACEUTICAL INORGANIC CHEMISTRY**

(For 2017, 2018 & 2019 admitted batches only)

Time: 3 hours

Max. Marks: 70

**PART – A**  
(Compulsory Question)

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- 1 Answer the following: (10 X 02 = 20 Marks)
- (a) Define errors. Enlist different types of errors.
  - (b) Enlist two indicators used in acid base titration.
  - (c) Give names of any two non-aqueous solvents.
  - (d) Enlist any two indicators used in precipitation titration.
  - (e) Name any two medicinal gases.
  - (f) Define limit test.
  - (g) What are cathartics? Give two examples.
  - (h) Enlist any two essential trace elements.
  - (i) Define anti caries agents.
  - (j) What are preservatives?

**PART – B**  
(Answer all five units, 5 X 10 = 50 Marks)

- 2 (a) Write a short note on neutralization titration.  
(b) Explain different types of errors.

OR

- 3 (a) Write a short note on volumetric analysis.  
(b) Explain Redox titrations.

- 4 (a) Write a detail note on complexometric titration.  
(b) Explain Mohr's method in detail.

OR

- 5 (a) Add short note on non aqueous titrations.  
(b) Discuss Fajan's method in detail.

- 6 (a) Discuss limit test of arsenic in detail.  
(b) Comment on any three medicinal gases.

OR

- 7 (a) Add a note on acidifiers.  
(b) Comment on limit test for iron.

- 8 (a) What are antacids? Explain with examples.  
(b) Write a note on electrolyte replenishers.

OR

- 9 (a) Write short note on essential trace elements.  
(b) Discuss cathartics in detail.

- 10 (a) Enlist different pharmaceutical aids. Add note on antioxidants and filter aids.  
(b) Comment on antimicrobials.

OR

- 11 (a) Enlist dental products. Add note dentifrices.  
(b) Write a short note on radiopharmaceuticals.

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Pharm.D I Year Regular & Supplementary Examinations November/December 2022

**PHARMACEUTICAL INORGANIC CHEMISTRY**

(For 2017, 2018, 2019, 2020 & 2021 admitted batches only)

Time: 3 hours

Max. Marks: 70

**PART – A**  
(Compulsory Question)

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- 1 Answer the following: (10 X 02 = 20 Marks)
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|--|----|
| (a) What are acid base titrations? Give examples.          | 2M |
| (b) Write the principle involved in Redox titrations.      | 2M |
| (c) Give a brief note on indicators.                       | 2M |
| (d) Write the principle of complexometric titrations.      | 2M |
| (e) Write the applications of gravimetry.                  | 2M |
| (f) What are limit tests and give examples.                | 2M |
| (g) Write the significance of electrolyte replenishers.    | 2M |
| (h) Give a short note on essential trace elements.         | 2M |
| (i) Write the applications of dental products.             | 2M |
| (j) What are radio pharmaceuticals? Give any two examples. | 2M |

**PART – B**  
(Answer all five units, 5 X 10 = 50 Marks)

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|-----------|--|-----|
| 2         | (a) Define errors in pharmaceutical inorganic chemistry and classify them.                                     | 5M  |
|           | (b) Explain how can we prevent those errors.   | 5M  |
| <b>OR</b> |  |     |
| 3         | Define volumetric analysis. Explain how we can analyze the drugs by using the volumetric analysis.             | 10M |
| 4         | Explain the principle, procedure and applications of precipitation titrations.                                 | 10M |
| <b>OR</b> |  |     |
| 5         | (a) Explain the principle, procedure involved in non-aqueous titrations.                                       | 6M  |
|           | (b) Write the applications of non-aqueous titrations.  | 4M  |
| 6         | (a) Explain the principle, procedure & significance for limit tests for chlorides.                             | 5M  |
|           | (b) Define acidifiers and write their importance.  | 5M  |
| <b>OR</b> |  |     |
| 7         | (a) What are medicinal gases and classify them?  | 5M  |
|           | (b) Write the significance of medicinal gases in the field of pharmacy.  | 5M  |
| 8         | (a) What are cathartics? Write about the different types.  | 5M  |
|           | (b) Write the properties and application of cathartics.  | 5M  |
| <b>OR</b> |  |     |
| 9         | (a) What are antacids? Classify them.  | 6M  |
|           | (b) Write the pharmaceutical applications of antacids.   | 4M  |
| 10        | (a) Define antimicrobials. Classify them.  | 6M  |
|           | (b) Explain how antimicrobials will be useful in the field of pharmacy.  | 4M  |
| <b>OR</b> |  |     |
| 11        | Define & classify the miscellaneous compounds in pharmaceutical inorganic chemistry. Write their applications. | 10M |

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Pharm.D I Year Supplementary Examinations February 2020  
**PHARMACEUTICAL INORGANIC CHEMISTRY**  
(For 2017 & 2018 admitted batches only)

Time: 3 hours

Max. Marks: 70

**PART – A**  
(Compulsory Question)

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1 Answer the following: (10 X 02 = 20 Marks)

- (a) What are errors?
- (b) Write a note on measurement errors.
- (c) Write on volumetric analysis.
- (d) What is limit test?
- (e) Write a note on redox titration.
- (f) Define indicator electrodes.
- (g) Write a note on cathartics.
- (h) Write a note on radio pharmaceuticals.
- (i) Define gravimetry.
- (j) Define acidifiers.

**PART – B**  
(Answer all five units, 5 X 10 = 50 Marks)

2 Explain in detail about errors with examples.

**OR**

3 Discuss about acid base titration with examples.

4 Write short notes on precipitation titration with examples.

**OR**

5 Discuss in detail about on theory of indicators.

6 Explain gravimetric analysis of compounds in detail.

**OR**

7 Write a detailed note on medicinal gases.

8 What are essential trace elements? Explain their applications in medicine and pharmacy with suitable examples.

**OR**

9 Write in detail about electrolyte replenishers.

10 Explain in detail about antimicrobial compounds.

**OR**

11 Explain about different dental product with their ingredients.

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Pharm.D I Year Regular & Supplementary Examinations July/August 2019

**PHARMACEUTICAL INORGANIC CHEMISTRY**

(For 2017 & 2018 admitted batches only)

Time: 3 hours

Max. Marks: 70

**PART – A**  
(Compulsory Question)

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- 1 Answer the following: (10 X 02 = 20 Marks)
- (a) Enlist types of errors.
  - (b) Write a note on human errors.
  - (c) Discuss gravimetry.
  - (d) What are antacids?
  - (e) Write a note on non aqueous titration.
  - (f) Write about indicator used in acid base titration.
  - (g) Define cathartics.
  - (h) Write a note on essential trace elements.
  - (i) Write a note on electrolyte replenishers.
  - (j) Explain radiopharmaceuticals.

**PART – B**

(Answer all five units, 5 X 10 = 50 Marks)

- 2 Discuss in detail about volumetric analysis with examples.

**OR**

- 3 Explain in detail about redox titration with examples.

- 4 Write a note on precipitation titration with example.

**OR**

- 5 Write a note on complexometric titrations.

- 6 Explain gravimetric analysis of compounds.

**OR**

- 7 Write a note on limit test and explain limit test for chlorides.

- 8 Write a detailed note on antacids.

**OR**

- 9 Discuss in detail about essential trace elements.

- 10 Explain about different dental product with their ingredients.

**OR**

- 11 Write a note on inorganic antimicrobial agents.

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Code: 17T00105

Pharm.D I Year Regular Examinations July/August 2018  
**PHARMACEUTICAL INORGANIC CHEMISTRY**  
(For 2017 admitted batches only)

Time: 3 hours

Max. Marks: 70

**PART - A**  
(Compulsory Question)

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- 1 Answer the following: (10 X 02 = 20 Marks)
- (a) Describe types of errors.
  - (b) Write a note on redox titration.
  - (c) Write a note on non aqueous titration.
  - (d) Write a note on theory of indicators.
  - (e) Explain electrolyte replenisher.
  - (f) Explain antimicrobials.
  - (g) Explain types of titrations.
  - (h) Explain medicinal gases.
  - (i) Explain volumetric analysis.
  - (j) Explain types of dental products.

**PART - B**  
(Answer all five units, 5 X 10 = 50 Marks)

**UNIT - I**

- 2 Define error and what are the various sources of errors in weighing?  
OR
- 3 Explain acid base titration in detail with indicators used in it and describe the colour changes with pH.

**UNIT - II**

- 4 Explain end point detection in complexometric titration. Write a note on various solvents used in non-aqueous titration.  
OR
- 5 What are the precipitation titrations? Write down principle involved in it and write a short note on indicators used in precipitation titrations.

**UNIT - III**

- 6 Write a short note on acidifiers. Explain their main types with suitable examples.  
OR
- 7 Explain procedure involved in the limit test for arsenic and silver chloride.

**UNIT - IV**

- 8 Define antacid, explain properties of ideal antacids. Give preparation of any three antacids.  
OR
- 9 Explain in detail cathartics and electrolyte replenishers.

**UNIT - V**

- 10 Write short note on dental products and pharmaceutical acids.  
OR
- 11 What are radiopharmaceuticals? Explain their applications in medicine and pharmacy with suitable examples.

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