

SUPPLEMENTARY
DOCTOR OF PHARMACY
First Year Pharm. D. :SUMMER- 2022
SUBJECT : PHARMACEUTICAL INORGANIC CHEMISTRY

Day : Friday

Date : 23-09-2022

S-5728-2022

Time : 10:00 AM-01:00 PM

Max. Marks : 70

N. B. :

- 1) **Q. No. 1 and Q. No. 5 are COMPULSORY.** Out of remaining attempt **ANY TWO** questions from each Section.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answers to both the sections should be written in **SEPARATE** answer books.

SECTION – I

- Q. 1** A) Answer **ANY FOUR** out of six **(08)**
- i) Define the term Mean value.
 - ii) Define instrumental error.
 - iii) What is Calibration?
 - iv) What is accuracy?
 - v) Supersaturation.
 - vi) Medicinal uses of oxygen.
- B) Explain quinonoid theory of acid base indicators. **(03)**
- Q. 2** Define chelating agent and sequestering agent. Write the principle involved in complexometric titration. Write / Give the Assay of calcium gluconate. **(12)**
- Q. 3** a) Explain redox titration with suitable example. **(07)**
- b) Describe various sources of impurities in pharmaceutical substance. **(05)**
- Q. 4** Write short notes on **ANY THREE** of the following: **(12)**
- a) Limit test for chloride
 - b) Non-aqueous solvents
 - c) Fajan Method
 - d) Limit test for Arsenic
 - e) Nucleation

SECTION – II

- Q. 5** A) Answer **ANY FOUR** out of six **(08)**
- i) Classify antacids with suitable examples.
 - ii) Define the desensitizing agents in dental products and its examples.
 - iii) What is achlorohydia? Give the examples of acidifier.
 - iv) Define and enlist the essential trace elements.
 - v) What is the role of fluoride in dental products?
 - vi) Why Zinc is important for human health?
- B) Write about mechanism of action of saline cathartics. **(03)**

P. T. O.

- Q. 6** a) Define Radio pharmaceuticals. Write about the handling precautions of Radioactive agents. (07)
- b) Write about the composition of ORS and write its importance. (05)
- Q. 7** Describe the mode of action of antimicrobial agents with examples. (12)
- Q. 8** Write short notes on **ANY THREE** of the following: (12)
- a) I^{131}
 - b) Pharmaceutical waters
 - c) Antioxidant
 - d) Gastrointestinal Protective and adsorbents
 - e) Radiopaque contrast Media

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