

First Year Pharm. D (SUPPLEMENTARY) : SUMMER - 2019
SUBJECT: PHARMACEUTICAL INORGANIC CHEMISTRY

Day: Friday
Date: 05/07/2019

Time: 10.00 A.M. TO 01.00 P.M.
Max. Marks: 70

S-2019-4531

N.B:

- 1) **Q.No.1 and Q.No.5 are COMPULSORY.** Out of remaining solve any **TWO** Questions from **Section-I** and **Section-II**
- 2) Answer to both the section should be written in **SEPARATE** answer book.
- 3) Figures to the right indicate **FULL** marks.

SECTION-I

- Q.1** A) Attempt any **FOUR** of the following. (08)
- i) What precautions are to be taken during handling of Radioisotopes?
 - ii) Name two electrolytes used for replacement therapy and two compounds used to maintained acid-base balance.
 - iii) Write the biochemical role of Iodine and Sulphur as essential and trace elements.
 - iv) Give the principle and reaction involved in the limit test for Sulphate.
 - v) How will you prepare and standardized 0.1 N Sodium hydroxide.
- B) Write a brief note on Salt hydrolysis. (03)
- Q.2** Discuss the various physiological buffers in detail for maintaining the physiological acid-base balance in our body. What are the related disorders and how are they treated. (12)
- Q.3** a) Explain in detail Electron balance method and Oxidation number method for calculating equivalent weight. (07)
- b) Discuss in detail limit test for Arsenic. (05)
- Q.4** Write short note on any **THREE** of the following. (12)
- a) Mechanism of Antimicrobial agent
 - b) Compare between Iodimetry and Iodometry
 - c) GM counter
 - d) Neutralization curves for Acid-base titrations

SECTION-II

- Q.5** A) Attempt any **FOUR** of the following. (08)
- i) Give the ideal properties of Antacids.
 - ii) Give the properties, uses and storage conditions of the Nitrogen gas.
 - iii) What is Common ion effect?
 - iv) Why particle size of Protectives is important? Give examples of Protectives.
 - v) Why Magnesium sulphate is added in the assay of Calcium Gluconate.
- B) Give the preparations and standardization of 0.1 M Silver nitrate solution. (03)
- Q.6** What is Gravimetric analysis? Discuss in detail the steps involved in Gravimetric analysis. (12)
- Q.7** a) Discuss the methods of end point determination in Precipitation titrations. (07)
- b) Explain in detail Saline cathartics. (05)
- Q.8** Write short note on any **THREE** of the following. (12)
- a) Combination antacid therapy
 - b) Anticaries agents
 - c) Antioxidants
 - d) Masking and Demasking agents in Complexometric titrations

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