

**F.Y.B.PHARM. SEMESTER-I (CBCS - 2015 Course) : WINTER -
2018**

SUBJECT: PHARMACEUTICAL CHEMISTRY – I (INORGANIC)

Day: Monday
Date: 12/11/2018

W-2018-4061

Time: 10.00 A.M. TO 01.00 P.M.
Max. Marks: 60

N.B:

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

- Q.1** Attempt **ANY FIVE** of the following **(10)**
- a) Write the principle and reaction involved in limit test of chloride.
 - b) Write the principle involved in the assay of sodium acetate.
 - c) Write principle and reaction involved in limit test of iron.
 - d) Write the importance of calcium in body.
 - e) Define the term pharmacopoeia and monograph.
 - f) Write physicochemical properties and uses of potassium bicarbonate.
- Q.2** a) Write detail note on electrolyte used in acid-base therapy. **(07)**
b) Write in brief about contents of official monograph. **(03)**
- Q.3** a) Write note on limit test for heavy metals. **(07)**
b) Comments on sodium as a major extra cellular ion. **(03)**
- Q.4** Write short notes on **ANY TWO** of the following **(10)**
- a) Limit test for Arsenic
 - b) Electrolytes used in replacement therapy
 - c) Sources of impurities

SECTION - II

- Q.5** Attempt any **FIVE** of the following **(10)**
- a) Give the ideal requirements of antacid.
 - b) Explain the mechanism of action of cathartics.
 - c) Define the terms:
 - i) Antacid
 - ii) Trace elements
 - d) What are essential elements? Give their examples.
 - e) Write the physiological role of Iodine in body.
 - f) Enlist the official compounds of Iron.
- Q.6** a) What are antacids? Explain their mechanism of action. Discuss the properties, assay and uses of calcium carbonate as antacid. **(07)**
b) Write brief account of combination antacid therapy. **(03)**
- Q.7** a) List the compounds of bismuth used as protectives. Discuss the properties, assay and uses of Bismuth subcarbonate. **(07)**
b) Discuss in brief the mechanism of action of protectives and absorbants **(03)**
- Q.8** Write short notes on **ANY TWO** of the following: **(10)**
- a) Kaolin
 - b) Physiological role of copper
 - c) Magnesium hydroxide as antacid