

SUBJECT: PHARMACEUTICAL CHEMISTRY – I (INORGANIC)

Day: Monday
Date: 22/04/2019

S-2019-4370

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.

SECTION - I

- Q.1** Attempt any **FIVE** of the following (10)
- a) Why deep reddish purple colour is developed in iron limit test.
 - b) Write the principle and reaction involved in the limit test of sulphate.
 - c) Write physicochemical properties and uses of sodium lactate.
 - d) Write the principle involved in the assay of sodium citrate.
 - e) Write the importance of magnesium in the body.
 - f) Write the principle and reaction involved in the limit test of iron.
- Q.2** a) Write detail note on electrolyte combination therapy. (07)
b) Write note on sources of impurities. (03)
- Q.3** a) Write detail note on limit test for Arsenic. (07)
b) Comment on sodium as a major extracellular ion. (03)
- Q.4** Write short notes on **ANY TWO** of the following: (10)
- a) Factors affecting on purity of pharmaceuticals
 - b) Limit test for lead
 - c) Contents of official monograph

SECTION - II

- Q.5** Attempt any **FIVE** of the following (10)
- a) Define antacid? Give the mechanism of action of antacid.
 - b) What are saline cathartics? Give their examples.
 - c) Write the physiological role of zinc as trace element.
 - d) Write the composition of Magaldrate.
 - e) Give the assay of ferrous sulphate as per I.P.
 - f) Write the uses and examples of protectives and adsorbants.
- Q.6** a) List the compounds of aluminium and magnesium used as antacids. Discuss the properties, assay and uses of Aluminium hydroxide gel. (07)
b) Explain how the acid neutralizing capacity of antacid is evaluated? (03)
- Q.7** a) What are essential and trace elements? Describe absorption, distribution and physiological role of Iron in body. (07)
b) Explain the properties and uses of ferric ammonium citrate. (03)
- Q.8** Write short notes on **ANY TWO** of the following (10)
- a) Sodium bicarbonate as antacid
 - b) Magnesium sulphate as cathartics
 - c) Assay of magnesium hydroxide

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