

B.PHARM
(SEM I) THEORY EXAMINATION 2018-19
PHARMACEUTICAL CHEMISTRY- I
(PHARMACEUTICAL INORGANIC CHEMISTRY)

Time: 3 Hours

Total Marks: 70

Note: 1. Attempt all Sections.

SECTION A

1. Attempt all questions in brief.

2 x 7 = 14

- a. What is Limit test? Which apparatus is used for the limit test for Arsenic?
- b. Define Dentifrices. Give its example.
- c. What are Haematinics? Write its example.
- d. Differentiate Achlorhydria and hyperchlorhydria.
- e. What are expectorants? Give its example.
- f. Write down the chemical formula of Bismuth sub-carbonate and Sodium metabisulphite.
- g. What are physiological ions?

SECTION B

2. Attempt any three of the following:

7 x 3 = 21

- a. Define antioxidants with example. Give parameters for the selection of antioxidants.
- b. Write the principle and procedure involved in the Limit test for Arsenic.
- c. Give a detail account on Povidine-Iodine.
- d. Write short note on any two of the following :
 - i) Magnesium hydroxide
 - ii) Calcium carbonate
 - iii) Zinc sulphate
 - iv) Boric acid
- e. What are Gastrointestinal agents? Classify. Write the physical properties of Calamine.

SECTION C

3. Attempt any one part of the following:

7 x 1 = 7

- (a) Explain about source and types of impurities with examples.
- (b) What are Respiratory stimulants? Give an account on Sodium chloride.

4. Attempt any *one* part of the following: 7 x 1 = 7

- (a) Define Astringent. Write chemical formula, preparation and uses of Alums.
- (b) Write a detailed account on the major Intra and Extra cellular electrolytes.

5. Attempt any *one* part of the following: 7 x 1 = 7

- (a) What are anti-caries agents? Write the chemical properties of Sodium fluoride.
- (b) Discuss about ORS. Give an account on Ferrous sulphate.

6. Attempt any *one* part of the following: 7 x 1 = 7

- (a) Explain the various methods employed for measurement of radioactivity.
- (b) Write down the ideal characteristics of an antacid. Give its classification also.

7. Attempt any *one* part of the following: 7 x 1 = 7

- (a) What are antidotes? Classify them. Write chemical formula and physical properties of any one antidote.
- (b) Explain the combination antacid therapy in detail.