

Roll No.

Total No. of Pages : 02

Total No. of Questions : 10

B.Pharma (2011 to 2016) (Sem.-1)
PHARMACEUTICAL CHEMISTRY-I
(Inorganic Pharmaceutical Chemistry)
Subject Code : BPHM-102
Paper ID : [D1103]

Time : 3 Hrs.

Max. Marks : 80

INSTRUCTION TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of FIFTEEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students has to attempt any FOUR questions.
3. SECTION-C contains FOUR questions carrying TEN marks each and students has to attempt any THREE questions.

SECTION-A**1. Answer briefly :**

- a. What is the official limit of calcium phosphate in dentifrices?
- b. Define inhalants. Give one example.
- c. Give the difference between protectives and adsorbents in GIT agents with one example each.
- d. Give two examples for calcium electrolyte replacement therapy.
- e. What is the mechanism behind antimicrobial activity of potassium permanganate?
- f. What is the role of insoluble zinc compounds?
- g. Name some of the official antioxidants used in pharmaceutical aids.
- h. Define saline cathartics. Give one example.
- i. Differentiate between sublimed sulphur and precipitated sulphur.

- j. Define the term Buffer capacity.
- k. What is Hypokalemia?
- l. Give two side effects of antacids.
- m. Write about activated charcoal.
- n. What is the use of Boric acid and Kaolin?
- o. Define Monograph.

SECTION-B

- 2. Write the assay principle and chemical reactions of **any two** of the following :
 - a. Zinc oxide
 - b. Boric acid
 - c. Ammonium chloride
 - d. Hydrogen peroxide
- 3. Clarify : Water for injection. Purified water and Bacteriostatic water for injection.
- 4. Write a short note on co-ordination compounds with examples.
- 5. Discuss combination antacid preparations with their advantages.
- 6. Give chemical formula, properties and uses of Talc.

SECTION-C

- 7. Discuss the impurities in pharmaceutical substances and their control sources. Elaborate the limit test for Iron and Lead. (10)
- 8. Define Astringents. Give the preparation and chemical formula for any two astringents. What is the mechanism action of hydrogen peroxide? (10)
- 9. Give the role of :
 - a. Lead acetate cotton plug in limit test of Arsenic.
 - b. Thioglycolic acid in limit test of Iron. (2×5 = 10)
- 10. Write a note on the following :
 - a. Expectorants
 - b. Chelating agents (2×5 = 10)