

B.Pharm. Semester—I (C.B.S.) Examination
PHARMACEUTICAL CHEMISTRY—I (INORGANIC)
Paper—2

Time : Three Hours]

[Maximum Marks : 80

- N.B. :**— (1) Question No. **1** is compulsory.
 (2) Solve any **FOUR** questions from the remaining.
 (3) Draw net labelled diagram wherever necessary.

1. Solve any **five** of the following :
 - (a) How will you determine acid neutralizing capacity of antacids ?
 - (b) Give the criteria for selection of antioxidants.
 - (c) Define buffer capacity. Write its importance.
 - (d) How ammonium carbamate can act as respiratory stimulant ?
 - (e) What do you mean by acidosis and alkalosis ?
 - (f) How to determine adsorption property of heavy kaolin as per IP ?
 - (g) Define achlorhydria. How to treat it ? 20
2. What are topical agents ? Give mechanism of action of topical agents as topical antimicrobial agents. Write method of preparation of specific uses of Potassium Permanganate and Boric acid. 15
3. Enlist various extracellular and intracellular physiological ions. Explain the role of major physiological ions. Add a note on disorders associated with them. 15
4. (a) Write the various theories of acids and bases along with their advantages and disadvantages. 8
 - (b) Explain various sulphur containing antioxidants. 7
5. (a) What are dental products ? Elaborate various dentifrices. 8
 - (b) What is purified water and water for injection ? What tests are carried out on water for injection as per IP ? 7
6. (a) Discuss any two methods for measurement of activity. 8
 - (b) What do you mean by radio-opaque contrast media ? Explain barium sulphate as radio-opaque contrast media along with its method of preparation. 7
7. Write short notes on any **three** of the following :
 - (a) Saline Cathartic
 - (b) Poison and antidotes
 - (c) Expectorants and emetics
 - (d) Topical Protectives
 - (e) Electrolytes combination therapy. 15