



- Notes :
1. Illustrate your answer necessary with the help of neat sketches.
 2. Discuss the reaction, mechanism wherever necessary.
 3. Solve all questions.

1. Write answers of following questions. 20
 - i) Enlist various sources of impurities.
 - ii) Write the reaction involved in limit test of Chloride.
 - iii) Define antacids with examples.
 - iv) Enlist major extra and intracellular electrolytes.
 - v) What is mean by isotonic solution. Give its examples.
 - vi) What are antimicrobials? Give its examples.
 - vii) Enlist various dental products.
 - viii) What is mean by expectorants? Give its examples.
 - ix) Write limit test reaction of sulfate.
 - x) What is mean by cathartics? Give its example.
2. Solve **any two** of the following.
 - i) What are impurities? Explain sources of impurities in pharmaceuticals? Write a note on limit test for Chloride as per I. P. 10
 - ii) Discuss Buffer and its types? Explain the mechanism of action of buffers by giving suitable example? Explain buffers in pharmaceutical systems. 10
 - iii) Define and classify antidote? Explain the role of antidote in cynide poisoning and note on sodium nitrite. 10
3. Solve **any seven** questions of the followings. Each question equal marks. 35
 - i) Write a note on emetics.
 - ii) Explain in detail about pharmacopoeia.
 - iii) Explain antimicrobial agents and their mechanisms.
 - iv) Discuss in detail the limit test for sulphate.
 - v) Explain Antacids and acidifying agents.
 - vi) Explain major intra and extra cellular ions and give role of potassium ion
 - vii) Write about dentifrices.
 - viii) Write a note on radiopharmaceuticals.
 - ix) Explain in detail about expectorants.
