Code No: 13278

# FACULTY

## Pharm. D (6 YDC) I-Year (Main & Backlog) Examination, July 2019

## Subject: Pharmaceutical Inorganic Chemistry

**Time : 3 Hours** **Max. Marks: 70**

**Note: Answer all questions from Part A and answer any five questions from Part-B.**

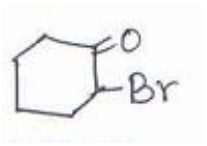
### PART-A (10 x 2 = 20 Marks)

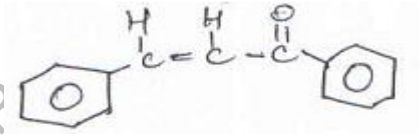
1. Define accuracy and precision.
2. Write about primary and secondary standards.
3. Explain Mohrs and Volhards methods.
4. What are different types of acidifiers?
5. Give reasons for use of combination of aluminium and magnesium salts as antacids.
6. Write the uses of Hydrogen peroxide.
7. What are anticaries agents? Give examples.
8. Define expectorants and emetics.
9. Write the method of preparation and uses of calcium carbonate.
10. Define common ion effect.

### PART-B (5 x 10 = 50 Marks)

11. Define Limit test. Write about the principle and procedure involved in the limit test for Lead. (10)
12. Explain in detail about the neutralization curve for the following titrations with calculation of equivalence point and pH.
    (a) Strong acid-Strong base. (5)
    (b) Weak acid-Strong base. (5)
13. Explain how end point is detected in Complexometric titrations. (10)
14. (a) What are antimicrobials? (2)
    (b) Write the mechanism of action of antimicrobial agents. (8)
15. Write in detail about role of solvents used in Non aqueous titration. (10)
16. Explain about the physiological role of copper and iodine. (2x5)
17. (a) What are antacids? Classify them. (4)
    (b) Write the method of preparation and uses of aluminium hydroxide gel and sodium bicarbonate. (6)
18. Define antidote. Write the method of preparation, uses and mechanism of sodium nitrate and sodium thiosulphate in cyanide poisoning. (10)

**********



16. Write the mechanism involved in the following
    a. Fries rearrangement
    b. wittig reaction
17. Write short notes on the following
    a. Hyperconjugation
    b. Oxidation and reduction reactions of carbonyl compounds
18. Explain the Markovnikov rule and antimarkovnikov rule in propene with mechanism.

**********