Kafrelsheikh University Faculty of Pharmacy Department of Pharmaceutical Analytical Chemistry

Pharmaceutical Analytical Chemistry II

First level pharm D clinical

القائمون بالتدريس و الممتحنون و المصححون :

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Research topics

1- Ethylenediaminetetraacetic acid (EDTA) and its role in quantitative analytical chemistry

2- Different Application of EDTA in the quantitative analytical chemistry

3- Direct and indirect EDTA titration and their roles in the complexometric titration

4- Application of complexometic reaction in the quantitative analysis of pharmaceutical drugs.

5- Masking and de masking and its role in the complexometric analysis

6- Metal quantitative analysis using different analytical approaches

7- Drug analysis using either complexometric or redox titration based analysis

8- Utility of complexometric reactions in the quantitative analysis of drugs.

9- Acid base indicators and its application in pharmaceutical analysis

10- Different Application of acid base titration in the quantitative analytical chemistry

11- Direct and indirect acid base titration and their roles in the complexometric titration

12- Application of complexometic reaction in the quantitative analysis of pharmaceutical drugs.

13- Utility of acid base reaction for quantitative analysis of acidic drugs.

14- Utility of acid base reaction for quantitative analysis of basic drugs.

15- Color indicator theories discussion

- 16- Chemical analysis area classification and examples
- 17- Masking and demasking and its role in the complexometric analysis
- 18- Metal quantitative analysis using different analytical approaches
- 19- Drug analysis using either complexometric or acid base titration based analysis
- 20- Non aqueous titration importance and applications
- 21- Utility of complexometric reactions in the quantitative analysis of drugs.

22- Utility of oxidation reduction reaction for quantitative analysis of pharmaceutical compounds.

- 23- Vitamins quantitative analysis using redox reaction.
- 24- Drug quantitative analysis based on the oxidation reduction behavior.
- 25- Different Application of Redox titration in the quantitative analytical chemistry.
- 26- Masking and de masking and its role in the complexometric analysis.
- 27- Metal quantitative analysis using different analytical approaches
- 28- Electro chemical analysis of drugs using potentiometric methods
- 29- Ion selective electrode and its role in pharmaceutical analysis.