

CHE 426 CAT

1. (a) Briefly describe the basic concept of conductometry. [3 marks]
(b) Sketch and explain the trends in the conductometric titration graphs for the following reactions:
 - (i) Acid-base reaction between HCl and NaOH. [3 marks]
 - (ii) Acid-base reaction between CH₃COOH and NH₄OH. [3 marks]
 - (iii) Precipitation reaction between AgNO₃ and LiCl. [3 marks]

2. (a) Briefly describe the basic concept of electrogravimetry. [3 marks]
(b) Explain any four methods by which the end of deposition is detected in electrogravimetry. [8 marks]

3. (a) What is coulometry [3 marks]
(b) How is the end-point detected in coulometric titration? [4 marks]