

Shivaji College
University of Delhi
Department of Chemistry
Assingment (Academic year 2023-24)

Name of the Course : B.Sc. (H) Chemistry

Name of the Paper : DSE, Analytical Methods in Chemistry

Semester VI

Maximum Marks 12

Faculty Name Dr. Priyanka Kumari

Date : 26.04.24

Duration : 1 hr

General Instructions:

Attempt all questions

- 1. Write down two causes for deviation of the Beer's law. State how the Lambert-Beer's law could be useful in the quantitative analysis of two substances (say, A and B) in a mixture. What is the unit of molar extinction coefficient? 3 Marks**
- 2. What do you mean by extraction by chelation and extraction by solvation? Explain the role of pH in solvent extraction process. 3 Marks**
- 3. Which types of information will you get from a thermo-gravimetric curve? Write the factors which affect thermo-gravimetric process. 3 Marks**
- 4. Write down the important criteria for selecting organic solvents for solvent extraction. 3 Marks**