

SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN
(AUTONOMOUS)

(Affiliated to the University of Madras and Re-accredited with 'A+' Grade by NAAC)
Chromepet, Chennai — 600 044.

B.Sc. END SEMESTER EXAMINATIONS NOVEMBER-2022
SEMESTER - I

22UCHCT1002 - Analytical Chemistry - I

Total Duration : 2 Hrs 30 Mins.

Total Marks : 60

Section A

Answer any **SIX** questions ($6 \times 5 = 30$ Marks)

1. Define the terms corrosive, explosive and carcinogenic chemicals.
2. Explain the general precautions for avoiding accidents.
3. Classify the laboratory apparatus based on their uses.
4. Describe the absolute error and relative error with suitable example.
5. Explain the theories of indicators.
6. Illustrate the three theories of principle that governs gravimetry.
7. Predict the role of Dimethylglyoxime and cupferron in analytical chemistry?
8. Discuss the concept of solubility product and common ion effect

Section B

Answer any **THREE** questions ($3 \times 10 = 30$ Marks)

9. Describe the following method of first aid techniques, Waste disposal and fume disposal.
10. Enlist components of the pH meter and its uses and explain the maintenance of the pH meter.
11. Examine the acid-base, redox and iodometric of volumetric analysis.
12. Apply and explain the concept of theories of precipitation and precipitation from homogenous.
13. Assess the group separation of common cations in detail.
