

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.Physics - END SEMESTER EXAMINATIONS - NOV'2024

SEMESTER - I

22UPHAT1001 - Chemistry for Physics I

Total Duration : 2 Hrs.30 Mins.

Total Marks : 60

Section B

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

1. Illustrate the first aid procedure to be followed during laboratory accidents.
2. Explain absolute and relative errors.
3. Distinguish coordination compounds and double salts.
4. Sketch the structure of NaCl and explain it.
5. Describe standard electrode and reference electrodes.
6. Define the following terms.
a) Molarity b) Molality c) Normality
7. Describe the Primary and secondary standard substances.
8. What is the composition of CNG and LPG? write its uses.

Section C

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

9. Explain paper chromatography technique in detail.
10. Examine the hybridisation in methane ethylene and acetylene.
11. Illustrate the types of acid base titrations and uses of indicators.
12. Interpret Henderson-Hasselbalch equation and write its significance.
13. Explain nuclear fission and fusion reactions.
