

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 APRIL-2022

SEMESTER - I

16UNDATICH1 - Allied chemistry I

Total Duration : 3 Hrs.

Total Marks : 60

Section A

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

1. What is the Strong and Weak electrolytes explain with example?
2. What is Henderson equation explain?
3. Write brief note on water gas.
4. What are the constituents that causes hardness in water? Explain the carbonate hardness and non carbonate hardness.
5. Explain hyperdisation? Explain the hyperdisation in methane molecule.
6. Explain Electrophilic substitution reaction.
7. How will you obtain Pyridine from acetylene.
8. State Grutthus Dropper law

Section B

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

9. Discuss the bufferaction in biological systems.Explain common ion effect.
10. What are the requisites of water for municipal supply.How is raw water treated for domestic purpose.
11. How Will you prepare Pyridine? Mention few uses of Pyridine.
12. Explain the following reactions a.Addition b.Substitution c.Elimination d.Condensation
13. Write note on a.Photosensitisation b.Phosphorescences c.Fluorescence d.Photosynthesis.
