

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 EXAMINATION APRIL/NOV - 2021

SEMESTER - III

20UCHCT3006 - General Chemistry - VI

<b>Total Duration : 3 Hrs</b>		<b>Total Marks : 75</b>
MCQ	: 30 Mins	MCQ : 15
Descriptive	: 2 Hrs.30 Mins	Descriptive : 60

Section B

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

1. Write briefly the mechanism involved in alkaline hydrolysis of ester.
2. What are Grignard reagents? Mention its synthetic uses.
3. Discuss the reactions of epoxides.
4. Define: food adulterants. Mention the common food adulterants and their detection.
5. Distinguish primary and secondary standards.
6. How are food additives classified? Explain
7. Explain the role of EDTA in complexometric titrations.
8. How are dicarboxylic acids prepared?

Section C

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

9. Write short notes on Dieckmann condensation and Reformatsky reactions.
10. Discuss the preparation and properties of ethers.
11. In detail write the preparation properties and uses of organo lithium compound.
12. Discuss the physiological, psychological and social related problems associated with alcoholism.
13. a) Write briefly about the classification of indicators.  
b) Explain the theories associated with indicators using suitable example