LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



U.G. DEGREE EXAMINATION – **ALLIED**

SECOND SEMESTER - APRIL 2023

UCH 2301 - CHEMISTRY FOR BIOLOGY

Date: 10-05-2023 Time: 01:00 PM - 04:00 PM	Dept. No.	Max. : 100 Marks
Answer ALL questions.	Part-A	$(10\times2=20)$
 Define universal antidote. Write the composition of LPG. Mention the stationary and mobil List the characteristics of a solver State the law of volumetric analy Differentiate accuracy and precis Write the characteristics of ionic What are ambidendate ligands? C What are biodegradable polymers Define the term 'saponification'. 	nt to be used for recrystallization sis. ion. compound. Cite an example. s? Give an example.	
-	Part-B	
Answer any EIGHT questions.		$(8\times 5=40)$
11. Illustrate the general rules observed 12. Describe the first aid procedure to 13. Discuss the various steps involved 14. Describe the principle and technology 15. How is paper chromatographic so 16. Define the following terms (i) model 17. Discuss the mechanism of acidic 18. Calculate the normality when 12 19. Explain the factors influencing to 19. Describe the inter and intra model 19. What are synthetic polymers? Model 19. Describe the mechanism of clear 19. Describe the mechanism of clear 19.	to be followed in the laboratory. ed in recrystallization. ique used in steam distillation preparation carried out? olarity (ii) ppb (iii) ppm buffer. 6 g of oxalic acid dihydrate is make formation of ionic bond. ecular hydrogen bonding with suffertion its advantages and disadvantages and disadvantages.	rocess. nade up in 1 Litre of water. nitable examples.
Answer any FOUR questions.	Part-C	$(4\times10=40)$
23a Mention the importance of MSF	OS of a chemical.	(. 20 10)

ention the importance of MSDS of a chemical.

b. How are toxic and poisonous chemicals stored in the laboratory? (5+5)

- Explain in detail how the components of a mixture can be separated using column chromatography.
- 25. Describe the types of errors and the methods to minimize them.
- 26a. Explain the different types of titrations with an example for each.

b. Calculate the pH of 0.01 N NaOH.

27. Give the structure and functions of the following (i) Chlorophyll (ii) Haemoglobin. (5+5)

28a. What are dyes? How are they classified based on application?

b. Outline the process of homogenization of milk. (7+3)

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(8+2)