Sl.No: M2120 **Course Code: BP202T**

VINAYAKA MISSION'S RESEARCH FOUNDATION (DEEMED TO BE UNIVERSITY), SALEM

B.PHARM. DEGREE EXAMINATION – July 2021 Second Semester

PHARMACEUTICAL ORGANIC CHEMISTRY I

Time: Three hours	Maximum:	75 marks
I. Write essays on any TWO questions:		$(2 \times 10 = 20)$
1. a) How will you distinguish primary, secondary and	tertiary amin	es (3+3+3=6)
b) Discuss the basicity of amines the effect of substi	tuent.	(4)
2. a) Write a note on Peroxide effect with example.		(5)
b) Explain Ozonolysis reaction with its application		(5)
3. Explain the mechanism, reactivity and kinetics of SNI and SN2 reaction.		
		(5+5=10)
II. Write short answers on any SEVEN questions:		$(7 \times 5 = 35)$
4. Halogenation of alkanes.		
5. Explain Saytzeffs rule with examples.		
6. Define hybridization. Describe the molecular orbital	structure of e	thane.(2+3=5)
7. Explain about Markownikoff's rule of alkene.		
8. IUPAC nomenclature of alkane.		
9. Detail about elimination reactions of alkylhalides and	d explain with	n examples.
		(2.5+2.5=5)
10. Write a note on aldol condensation with its mechan	nism	(2.5+2.5=5)
11. How to differentiate primary, secondary and tertiar	y alcohols?	
12. Explain Diels Alder reaction with examples		
III. Write short notes on:	(1	$0 \times 2 = 20$)

13. Define optical isomerism with one example.

(p.t.o)

- 14. Write the IUPAC name of
 - a) CH_3 — CH_2 CH CH_2 OH | Br
 - b) $CH_3 CH = CH CH_2 COOH$
- 15. Define conjugated dienes with examples.
- 16. What is tautomerism?
- 17. Write any two qualitative tests of esters.
- 18. Write the structure and uses of Iodoform trichloroethylene.
- 19. Structure and use of formaldehyde and paraldehyde.
- 20. Write the qualitative tests of carbonyl compounds.
- 21. Write the structure and uses of Dimethyl phthalate methyl salicyclate.
- 22. Define electromeric effect.

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