## P P SAVANI UNIVERSITY

Third Semester of B. Tech. Examination November 2022

## SECH2030 Unit Process in Organic Synthesis

03.12.20	22, Saturday	Time: 10:00 a.m. To 12:30 p.m.	Maximum Marks: 60		
Instructio					
1. The qu	uestion paper compris	ses of two sections.			
<ol><li>Sectio</li></ol>	n I and II must be atte	mpted in separate answer sheets.			
3. Make	suitable assumptions	and draw neat figures wherever required.	• 1110		
4. Use of	scientific calculator is	allowed.			
		SECTION - I			
Q-1	MCQ/Short Question	n/Fill in the Blanks (Any Five)	[05]	CO	ВТ
(i)	What is Amination?		[01]	1	1
(ii)	Explain Batch and Co	ontinuous Process	[01]	1	1
(iii)	Explain Nitration		[01]	1	1
(iv)	Draw the diagram of	f hiazz nitrator			1
			[01]	2	1
(v)	Write amination rea	ction.	[01]	4	1
(vi)	Write bechamp redu	iction reaction?	[01]	3	1
(vii)	What is Unit Process	?	[01]	4	1
Q - 2 (a)	Explain Unit Process	example each. Also explain difference between them.	[05]	4	2
Q-2(b)	Explain batch nitrati		[05]	4	2
		OR	[]		
Q-2(a)	Explain Hydrogenati	on with its scope in detail.	[05]	4	2
Q-2(b)		rating agents in detail.	[05]	2	2
Q - 3 (a)		ator in detail with diagram.	[05]	2	2
Q - 3 (b)	Explain the synthesis	s of mono-nitro toluene.	[05]	3	2
		OR			
Q-3 (a)	Explain about batch	and continuous process.	[05]	3	2
Q - 3 (b)	Explain various meth	ands of reductions	[05]		
)-4	Attempt anyone.	lous of reductions.	[05]	3	2
-			[05]		
(i)		es of oxidative reactions.		1	2
ii)	Explain different Pro	perties of hydrogen.		1	2
	1400 (0)	SECTION - II			
2-1		/Fill in the Blanks (Any Five)	[05]		
i)	Give definition of Est			1	1
(ii)	Explain the definition			1	1
iii)	Write any two oxida			2	1
iv)	Write any two Amina			2	2
v)	Mention the name of	halogen compound with significance.		2	2
vi)		y sulfonation reaction?		2	1
vii)	Explain Hydrolysis p	rocess.		2	1
Q - 2 (a)		ng of Acetic acid from ethanol	[05]	3	4

Q-2(a)	Explain different types of equipment used in industrial halogenation reaction or	[05]	2	4
	manufacturing process.	[05]	4	1
Q - 2 (b)	Explain Sulfonation and sulfation.	[03]	*	1
Q-3(a)	Give the definition of halogenation and the scope of halogenation reaction.		2	1
Q-3(b)	Explain classification of polymerization reaction in detail.	[05]	1	2
	OR			
Q-3(a)	Explain sulfonation of lauryl alcohol.	[05]	3	1
Q-3(b)	Explain types of polymer in detail.	[05]	1	2
0-4	Attempt any one/two.	[05]		
(i)	Explain catalyst used in ammonolysis		3	1
(ii)	Explain Ester and Esterification in detail.		1	2
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CO : Course Outcome Number

BTL : Blooms Taxonomy Level

Level of Bloom's Revised Taxonomy in Assessment

1: Remember	2: Understand	3: Apply	
4: Analyze	5: Evaluate	6: Create	