This question paper contains 2 printed pages]

## NA-177-2023

## FACULTY OF SCIENCE

## B.Sc. (Third Year) (Fifth Semester) EXAMINATION NOVEMBER/DECEMBER, 2023

(New/CBCS Pattern)

## INDUSTRIAL CHEMISTRY

Paper-XII

(Unit Processes in Organic Synthesis)

(Saturday, 23-12-2023)	Time: 10.00 a.m. to 12.00 noon
Time—2 Hours	Maximum Marks—40
N.B.:— (1) Attempt all q	uestions.
(2) Use of scient	fic calculator is allowed.
1. Explain polymerization	n process and explain synthesis of low pressure
polyethylene process w	ith neat labelled diagram.
So, Folk Fly, Friend	Or String
(a) Explain synthesi	s of Bakelite with neat labelled diagram. 8
(b) Explain synthes	is of Nylon 6, Nylon 66 with suitable reaction
mechanism.	FE F
2. Explain nitration proce	ss and explain kinetics and mechanism of aromatic
nitration.	
	Or S
(a) Explain Iodinati	on Reactions. 8
(b) Explain N-Nitroc	ompounds and nitrate esters. 7
D. C. M. VIEW SLEET	P.T.O.

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- 3. Write short notes on (any two):
  - (a) D.V.S. calculation
  - (b) Bulk polymerization
  - (c) Solution polymerization
  - (d) Atactic polymer.

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