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## Fourth Semester Bachelor of Science (B. Sc.) Examination

## INDUSTRIAL CHEMISTRY

## Paper - II (ICH 402)

[ Max. Marks : 50

N. B. : (1) All five questions are compulsory and carry equal marks.  (2) Give neat and well labelled diagram wherever necessary.			
<ol> <li>(A) Draw the flow sheet of process for the production of vinyl acetate monomer.</li> </ol>			
(B) Explain the commercial manufacture of Ethyl acetate.			
OR			
(C) Explain the reaction for pretreatment in the			

production of cellulose acetate.

(E) Describe the process of refining of ethyl acetate.  $2\frac{1}{2}$ 

(D) Write notes on alcoholysis or ester interchange

(F) Write the chemical reaction of acid chlorides used in the process of esterification.  $2\frac{1}{2}$ 

 (A) Describe the process of electrolytic reduction for the production of amines.

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reaction.

Time: Three Hours 1

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95 (B)	Explain the construction and working of pH me WWW.rtmnuonline.com	5 <sup>4</sup>
	OR	4
(C)	How will you calibrate the flow type liquid legauge and ultrasonic level gauge?	evel $2\frac{1}{2}$
(D)	How will you measure the viscosity of liqui	$\frac{1}{2}$
(E)	Give the uses of conductometric titration.	$2\frac{1}{2}$
(F)	Describe the working of conductometer.	$2\frac{1}{2}$
. Atte	nipt any ten of the following:-	
(i)	Give any two derivatives of ester.	
(ii)	What is alcoholysis?	•
(iii	) Give the common catalyst used for estesificat	ion.
(iv)	) What is electrolytic reduction ?	
(v)	Give the structure of p-aminophenol.	*,
(ví)	) Define hydrolysis.	, a
(vii	) What is sedimentation ?	
(viii	i) Define filtration	
(ix)	Give any two adsorbent.	
(x)	Define viscosity.	
(xí)	Give the name of standard electrode used for measurement.	r pH
(XI	) What is SI unit of conductance?	1×10
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