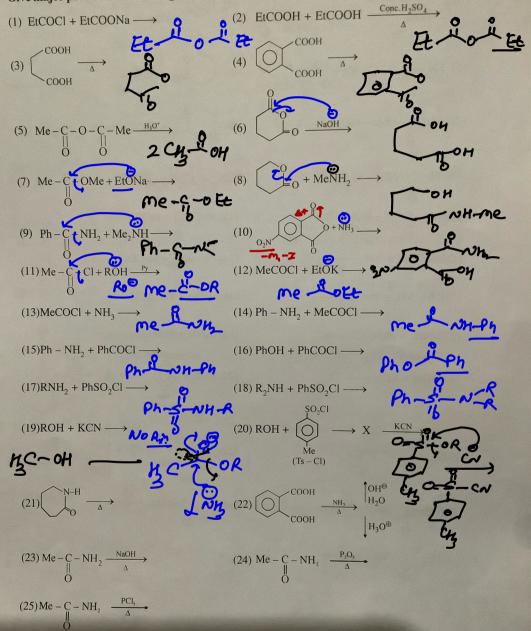


Q.1 Give major products of following reactions:



8504084320 Et siculy-z Et 109Nat

Ester Hydrolysis:

Ester. alkyl. QUID alcohol.

BAC BACI

BAL AAc2 AACT

AL -> alleyl Clegrage BALZ Ac - 9 gyl

AAL² AAL 8- bagic -A -> Acidic -> order of Rxx.

Cleavage

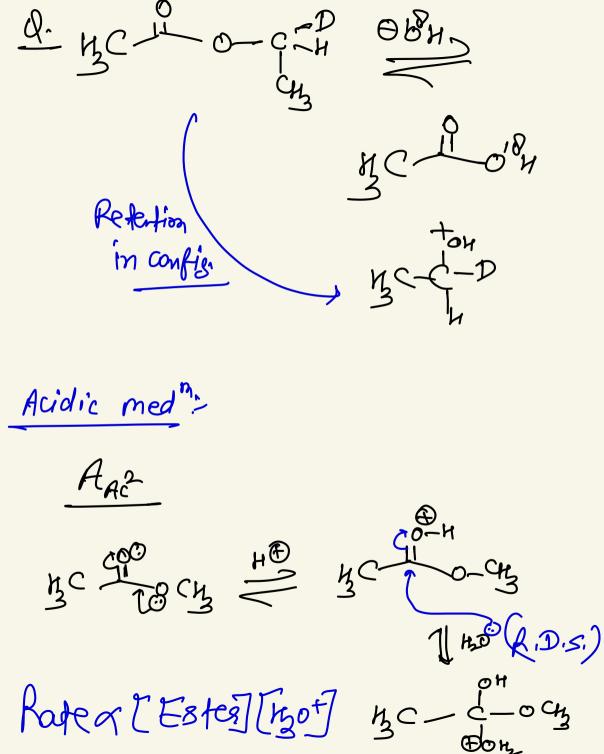
Bogic medium + BAC2 3 C CO CH OH 4C - C + OCH K[Sub][Bage]
Ester Rated [Ester] + 4000

R I OR' 98 R'= -Ch2-Ph alkyl Cleavage — C W63 -(E - (Pn2 Phy C-0184 * 9p is affacted with altyl Stoup then altyl degrape.

of show then and Cleanage.

Q 13 C - CH - Ph - BC - OO

(+) Ph- GH-CB
180H
29 cernic Phix.



$$\frac{1}{3}C - OH$$

$$\frac{1}{3}C - OH$$

$$\frac{1}{3}C - OH$$

MSC -CPh3 P3C® 71 130 Rade & [Ester]

4 C- 04 + Phy C-OH

AAL1 HE (R.D.S)

MC - C - CH MOID

CHEGNORE.

MSC POH +

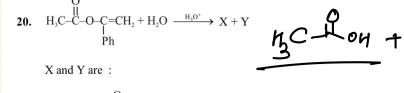
PL BC-C-BH Compare Reactivity
Ester Hydroly 818; order of 9) BC FOEL UCZ STOFE d7c7b7a HCCh store d) CSC STOFE

Compare Lequivity order of Ester Hydrolysis: 9) BC 0 FE b) Et LOFE 976707945 Ju OFF 35 CH Ore Steers of NOW affect

Some fests in Carboxylic aud: i) Nancoz (Sodium bicarbonate test) RCOOH + NOHLOS = RCOONG+ CO27 t 120 Brisk effervesience of H OH + ASO -> CO2+ hot 2ASI Silver ferent o

Hollon + Cusey- Coz + 120 + Cliso
Red H-104 + Hg42 -> Co2 + Hg242 + ho Ofher Calboxylic

Quid don't Sire above 3 tests



- (A) X is CH₃-C-O-CH₂-Ph
- Y is H₃C-C-OH

- (B) Y is PhCHO
- is Ph-C-CH

1. Match the following question:

Column - I

(Reaction)

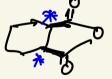
- (A) HOOC $\stackrel{\text{CH}_3}{\longrightarrow}$ COOH $\stackrel{\Delta}{\longrightarrow}$ \nearrow
- (B) HOOC $\xrightarrow{\text{CH}_3}$ COOH $\xrightarrow{\Delta}$ \bigcirc
- (C) $\stackrel{\text{HOOC}}{\underset{\text{CH}_3}{\longleftarrow}} \stackrel{\sim}{\longrightarrow}$
- $(D) \bigcup_{COOH} \xrightarrow{\neg}$

Column-II

(Products)

- (P) Diastereomers
- (Q) Racemic mixture
- (R) Meso comp.
- (S) CO₂ gas will evolve





meso

Amines=

General methods of Prep. of Amines:

DRIOH +NY O RINK

 $\begin{array}{ccc} & & & & & & & & \\ & & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & \\ & \\ & & \\ & \\ & \\ & \\ & & \\ & & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\$

3 R-NEC LAH R-NH-CZ

3 RMgx +

Nz-ce -> R-Nz

4) R-CH=NH CH2-NM2

N984,
OR
N984,
OR
N984,
OR

@ Ammono ly Sist

R+X + NH -HX R-NH 1amine

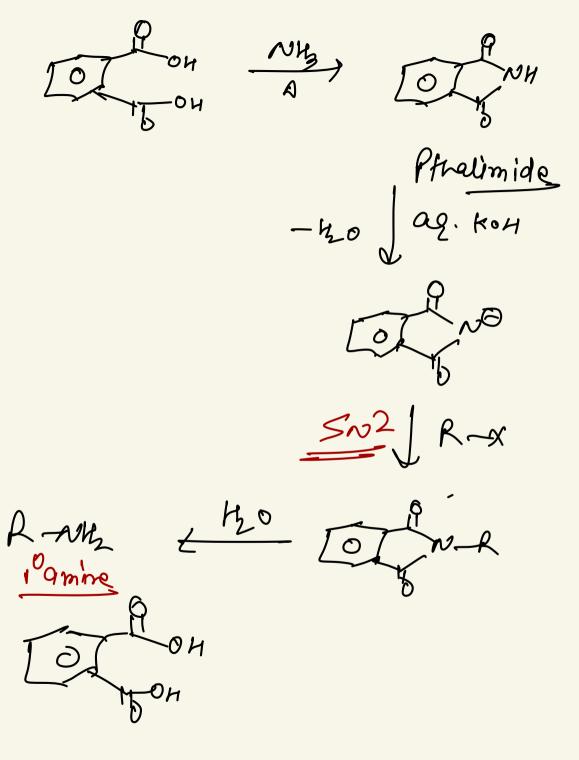
-rix Atx R-MH-R 2-9mine

-Hx / Ryx

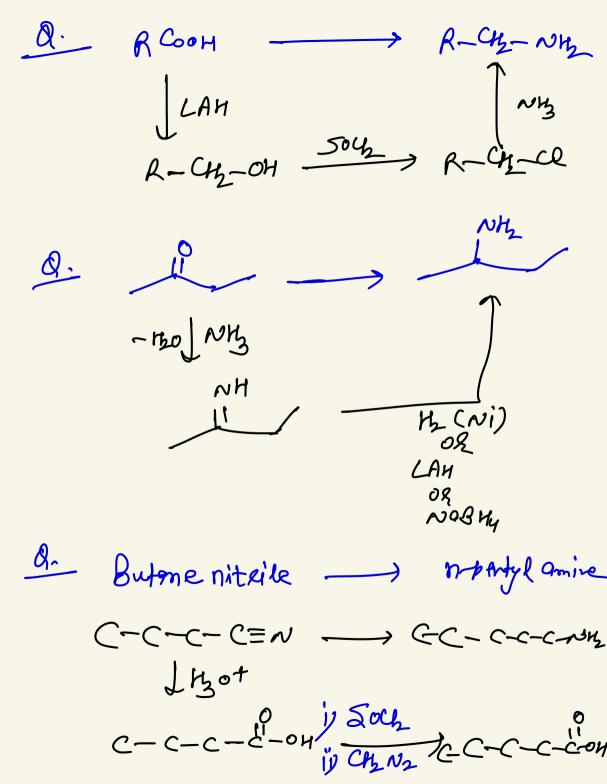
R-N-R/X

R-N dualiteenary ammonium salt

Craticel phalomide Synthesis!



Which of the Pollowing amines Connot be prepared by Gabriel Athalamide Synthesis; 1) Toll LI = CH-NH 111) 13C-NM 3C-X 12 13C-X 13C-X C-X C-X Et3C-NB mose which Connot 8how SN2



C-C-C-CCNW CAM C-C-C-C-E-NM

1-8, 13, 14, 23

1-20

Casborylic au'd and amire)

Casborylic au'd and amire)