59-(431)/531 Due Ber. 5, 2012 ASSIGNMENT SEPT. 26, 2012 1. SUGGEST THE MOST REASONABLE PRODUCT (S) OF THE FOLLOWING TRANSFORMATI SHOW STERED CHEMICAL ASPECTS WHERE APPROPRIATE AND GIVE THE RATIONALE NON - TRIVIAL ASPECTS, PLEASE SHOW ANY INTERMEDIATES THAT COULD BE ISOLATED ·) T: CI4, CH2CI2 <u>a)</u> 2°0 (£ (\mathbf{A}) 3) H20 4) H+, A PryN RUON (cm)) HOZ-NOZ b) o ·) Li, Et20,-10° C Praviety 3 \odot ·B_c 2) 0 5 f 2) Ticls 420 CHACIA, " SIEVES 3) HID AICI3 Hz SO4 , CH3CO2H-H2O (F)2) Hz, Pd) Pdon Cacoz Р ,) 20 ме ,) 20 ме тне, -78 ОН 2) С К н d) Pbo, QUINOLINE (G) (н) 2) leguis MnO2 CN2C12 3) H2O ·)_5_ + crue de cuzcla, -78° 00 2) Ph Br I) 2) AOD I 3) Etzn, war -> RT 3) Buki , THE -20° A) MegSi-CN, BF3.0Et2, CHLL 4) JU-H 5) H20

2) PROPOSE REASONABLE SYNTHESES OF THE INDICATED COMPOUNDS FROM THE GIVEN STARTING MATERIALS UNLESS STATED, YOU MAY USE ANY OTHER REAGENTS YOU DEEM FIT, ALTHOUGH THESE QUESTIONS WERE DESIGNED TO USE THIS COURSE' CONCEPTS, SHOW ALL REAGENTS, SUITABLE CONDITIONS, AND ANY INTERMEDIATE THAT COULD BE LOLATED. EXPLAIN ANY NON-TRIVIAL POINTS, SUCH AS STEREOCHEMICAL OR REGIOCHEMICAL FEATURES.

IS ENVISIONED AS GOING THROUGH A 1,2. DICARBONYL. FRMATINE IDEAS WELCOM CN3 OH d) TOCNEM

59-431 /531 Due Ger. 5, 2012 ASSIGNMENT # 1 SEPT. 26, 2012 1. SUGGEST THE MOST REASONABLE PRODUCT (S) OF THE FOLLOW SHOW STEREDCHEMIC CTS WHERE APPROPRIATE AND GI ANY NON- TRIVIAL ASPECTS PLEASE SHOW ANY INTERMEDIATES THAT COULD BE ISOLATED. Me35:-02 OET ·) T. CIN, CHACIZ <u>a)</u> A <u>2)</u> 3) H2O 4) H⁺, A $\frac{1}{100} \times B_{u}L; E_{2}O$ -78° 2) O $H \to OL$ *Pry N+ Ry OH (CAT) $(a) = \frac{1}{2} + \frac{1}{2}$ 6) 6 Br CN2 CI2, HASSIEVES 3) 420 H2 504 , AICI3 CH3002H-H20 E 2) Hz, Pd) Pdon Cacos HERE) 200 UNV MeLi THF, -78 2) ______ Ph Pbo, QUINOLINE d) (н) **(**G) он 2) legun MnO2. CN2C12 3) 420 1) ~ Bu Li, THF -20 5 e) Ξ, 2) Ph-8-2) Mez S:-CH, 3) * Bul; THE, -20° BF3. OEt2, CH2C12 Ĩ, 4) 3) H20 5) H20

2) PROPOSE REASONABLE SYNTHESES OF THE INDICATED COMPOUNDS FROM THE GIVEN STARTING MATERIALS UNLESS STATED, YOU MAY USE ANY OTHER REAGENTS YOU DEEM FIT, ALTHOUGH THESE QUESTIONS WERE DESIGNED TO USE THIS COURSE'S CONCEPTS. SHOW ALL REAGENTS, SUITABLE CONDITIONS, AND ANY INTERMEDIATE THAT COULD BE LOOLATED, EXPLAIN ANY NON-TRINIAL POINTS, SUCH AS STEREOCHEMICAL OR REGIOCHEMICAL FEATURES.

a) control	HO D	THIS IS ENVISIONED AS GOING THROUGH A 1,2" DICARBONYL ALTERNATIVE IDENS WELCOME
	ан	
c) $Ph \sim h$	H2NJ O Ph Lift OH	
d) GROUP ON ALDEHYDE		
	······································	I AM PRESUMING THIS IS THE STEREOCHEM, YOU'D GET,
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