

2 modes \$ 818	Old & Asha Hoon	10 (b) in the benzine n	re lowest
1 mod 800	888 s B.Z	enjoy av	additional ton alive to
10 prodo 8.88	A Di	favorable shown	aedap-at
	. 88 1/3)	8888 =	
	M.j Mrzene		catra stabilization
h) 878 H 870 me Homo	Trans Steriocher	arky.	
B) 40=0-50,+050z-0504- Thode (42)	2 nodu (43)		
Antisymmology (A) Bonding arbital Energy 43742	Symmetre (S) Non bonding chila		
номо 388		OR]	
Lumo		Hø	no 80

CH105 Organic Chemistry Tutorial-3 Model Answers

1. a) a chiral, plane of symmetry quentre of symmetry

b) achieal, plane of symmetry

c, achiral, plane of symmetry

d) chiral, enantiomers

2. b) 214-dibromo pentane

9-C17-SH7-OH7-H

6)-CH2BY7-CH2C17-CH2OH7-CH3

c) -OH7-CHO7-CH3-7-H)

d) - c(CA3)3 > - CH = CA27-CU(CH3)27H

e) OCA37 - N(CH3)27-CH37-H

4. 9) (3) CH2F R

(b) (c) (d) = cH 2

5. a) OFOR

b) cl3 of S

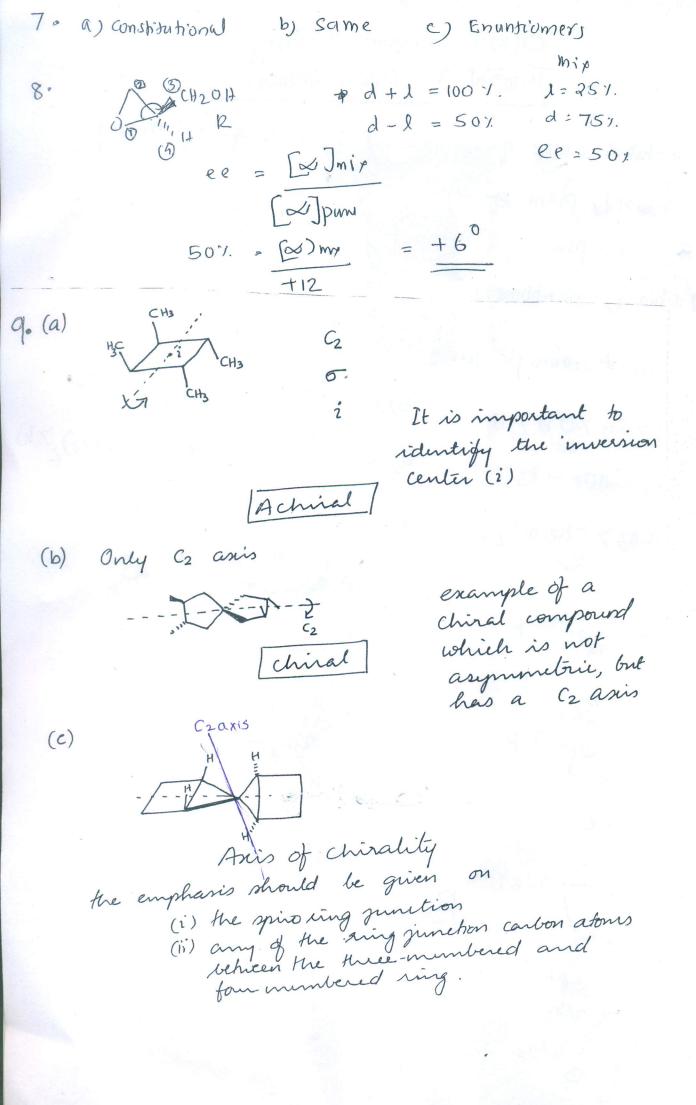
6. q)
meoc cso2ph

Cso2ph

Come

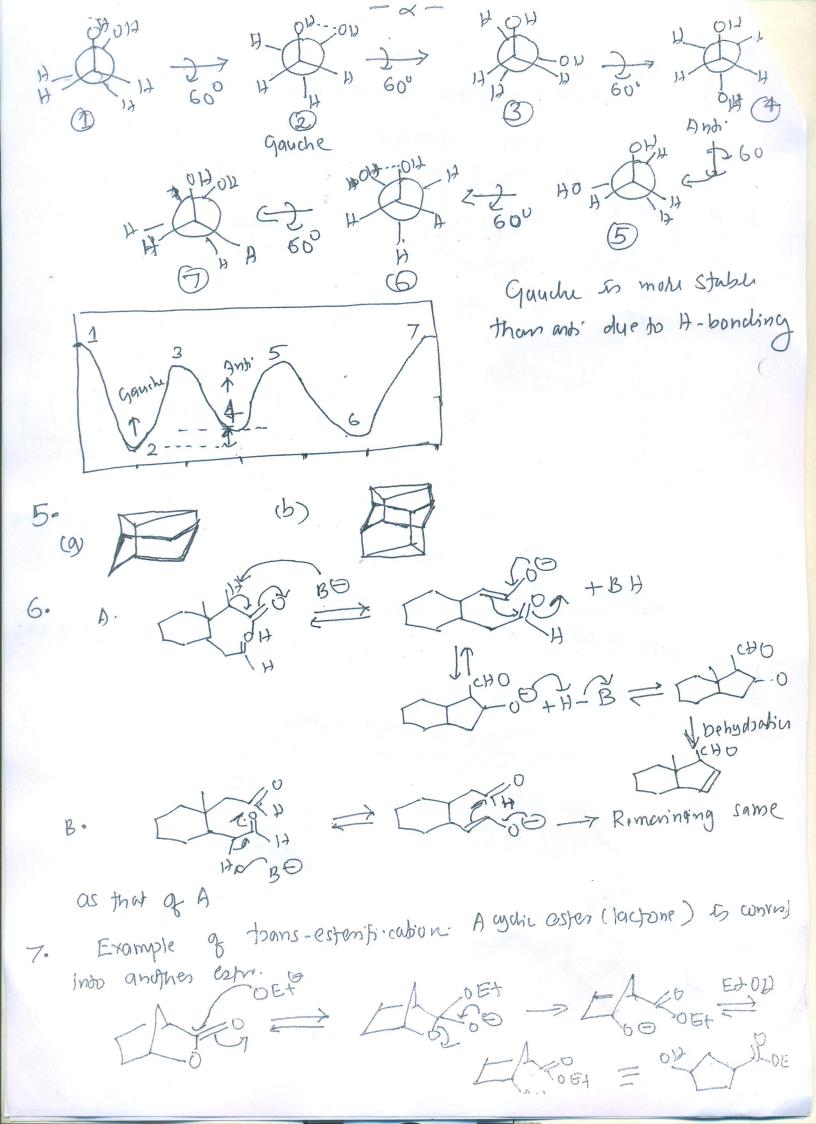
Cso2ph

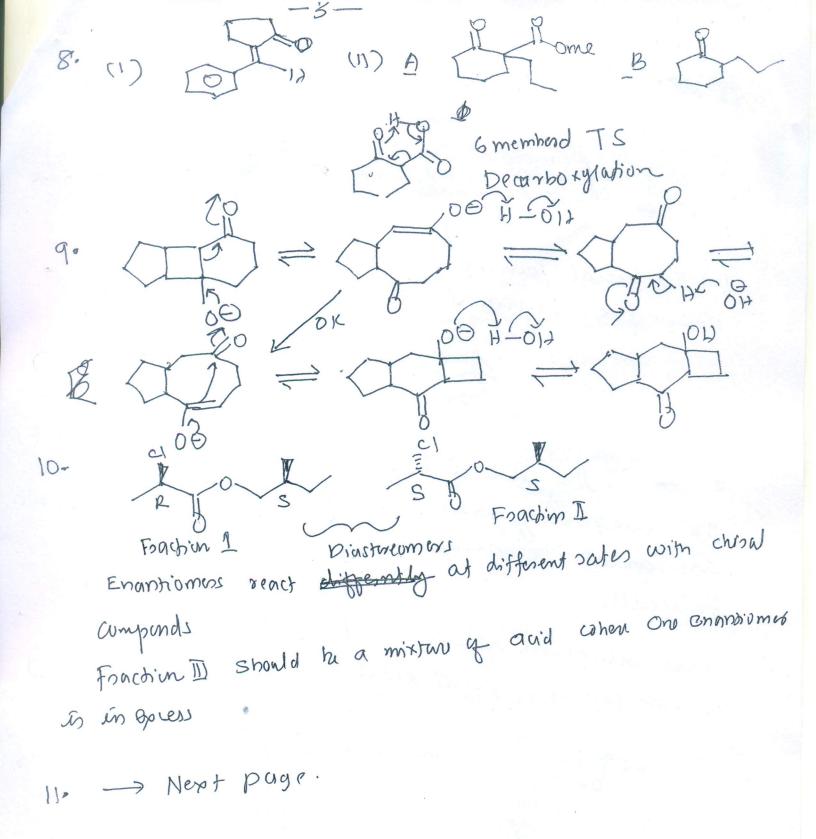
d) Chychichs P



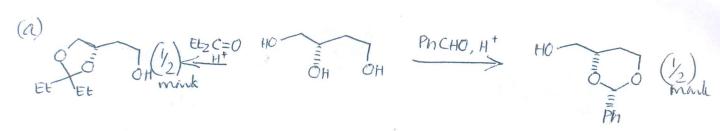
C4105 Tutorial 4 Conformational Analysis and Conbonys Compounds MODEL ANSWERS 10 Hand Br are in antiperiplanar configuration CH3 tursiand angle, There fore the barrier hish will be 3.9 kcel/min. CM3 H Ellipsed Staggood least stubly. 3 cb3 H edipsmy = 3x1:3 = 391cm/ most stubb No echipsing intradian Homework problem: 2/2-dimethyl hutane CAS 34-word

quache









(b) The acetal formed with benzaldebyde is a strain-free six-membered sing as shown

OH Ph

both An and CH2OH are equatorial

the corresponding sin-membered sing would have an asual Et group, resulting in high 1,3-diasian interaction:

This situation results in the formation of a sin five-membered ketal.

BE TO TOH

any one of conformational drawing

— (1)

jurtification of actual with benzaldehyde
by invoking 1,3-diamal interaction

(or gambe-betane) — (1)