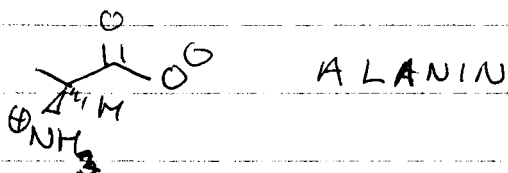


KORTFATTADE SVAR TILL FRÅGOR
PÅ TENTA I ORGANISK KEMI, FKI,
07.05.25

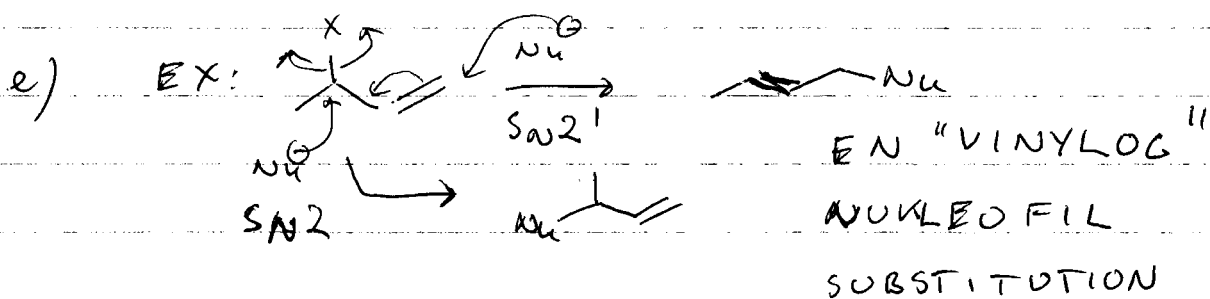
1) a) 1,4 (1,36)

b) EN NEUTRAL MOLEKYL, SOM INNEHÅLLER
BÅDE POSITIVT OCH NEGATIVT LADDADE
ÅTOMER.

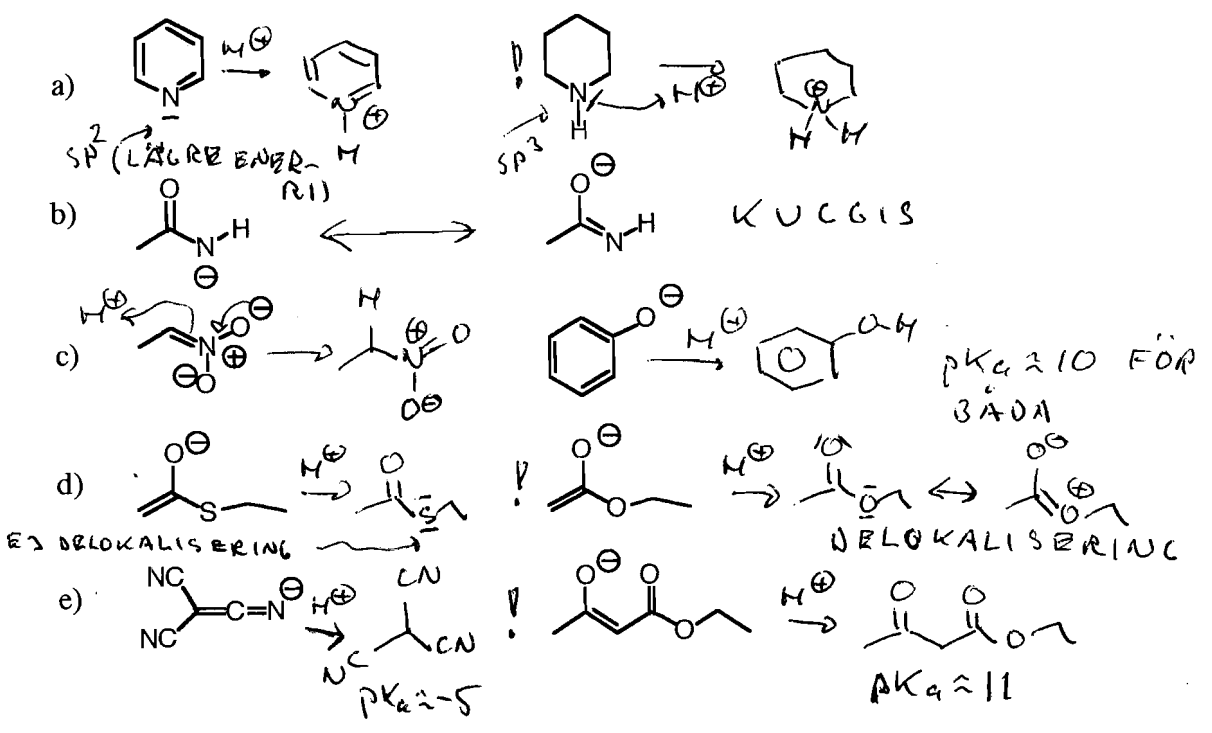


c) I FAS I TESTAS EN CO (CANDIDATDRUG)
PÅ FRISKA FRIVILLIGA FÖR ATT HITTA
EVENTUELLA TOXISKA EFFEKTER
I FAS II TESTAS EN CO PÅ SJUKA FRIVILLIGA
FÖR ATT SE OM SUBSTANSEN
HAR EFFEKT.

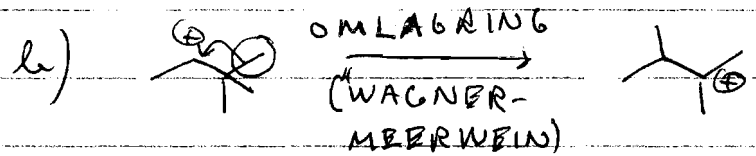
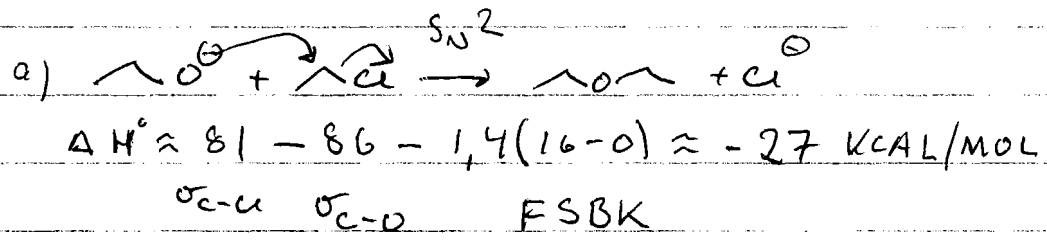
d) STEREOELEKTRONISK EFFEKT ÄR DEN
KEMISKA KONSEKVENSEN AV HUR ORBITALER
ÄR ORIENTERADE I RYMDEN.



2)

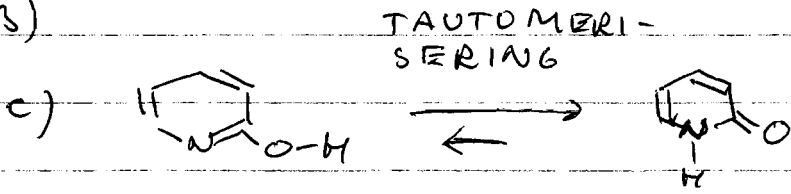


3)



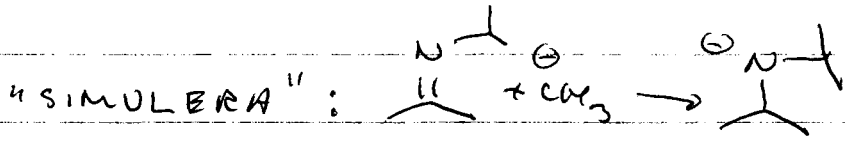
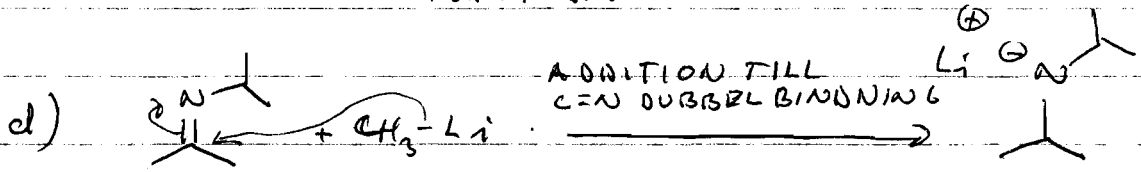
SBK, KARBOKATION $\approx 12 \text{ kcal}$ INSTABILARE
 ÄN TERT. KARBOKATION $\Rightarrow \Delta H^\circ \approx -12 \text{ kcal/mol}$

FORTS. 3)



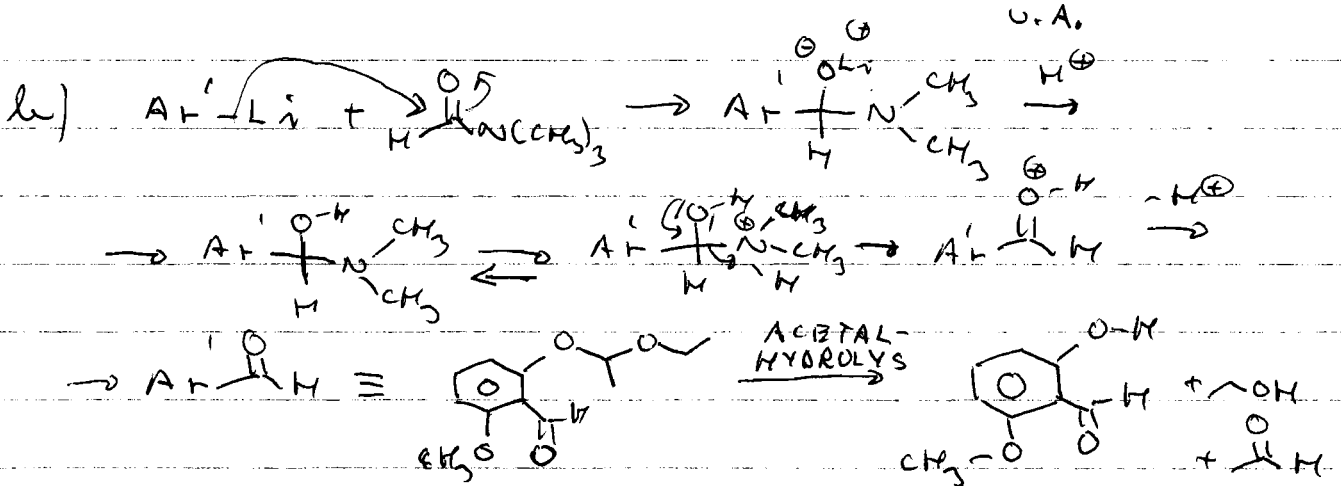
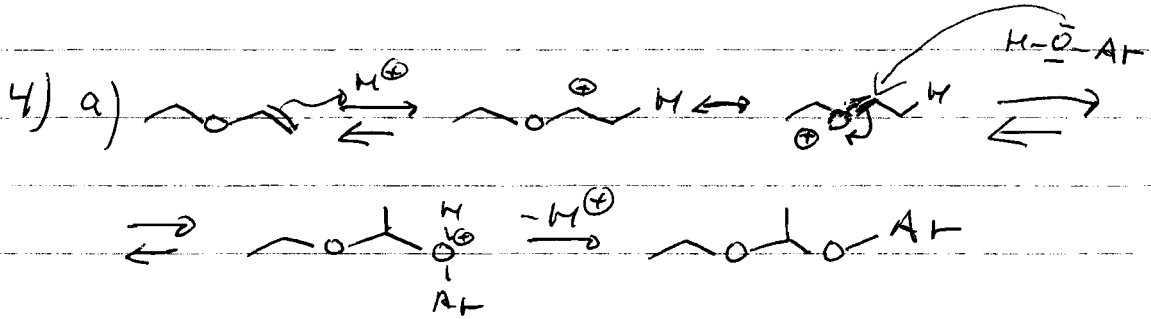
$$\Delta H \approx 69 + 103 + 28 - 95 - 93 - 17 \approx -5$$

$\pi_{C=N}$ σ_{O-H} AROMAT.-ENERGI σ_{N-H} $\pi_{C=O}$
 FÖR PYRIDIN



FSBK

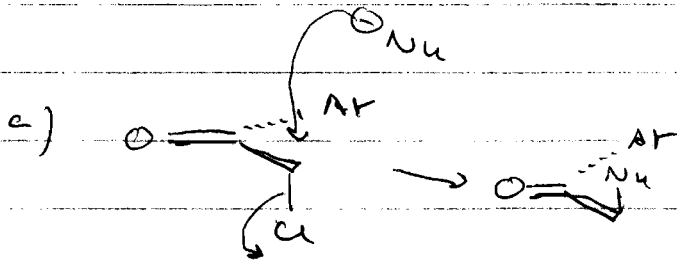
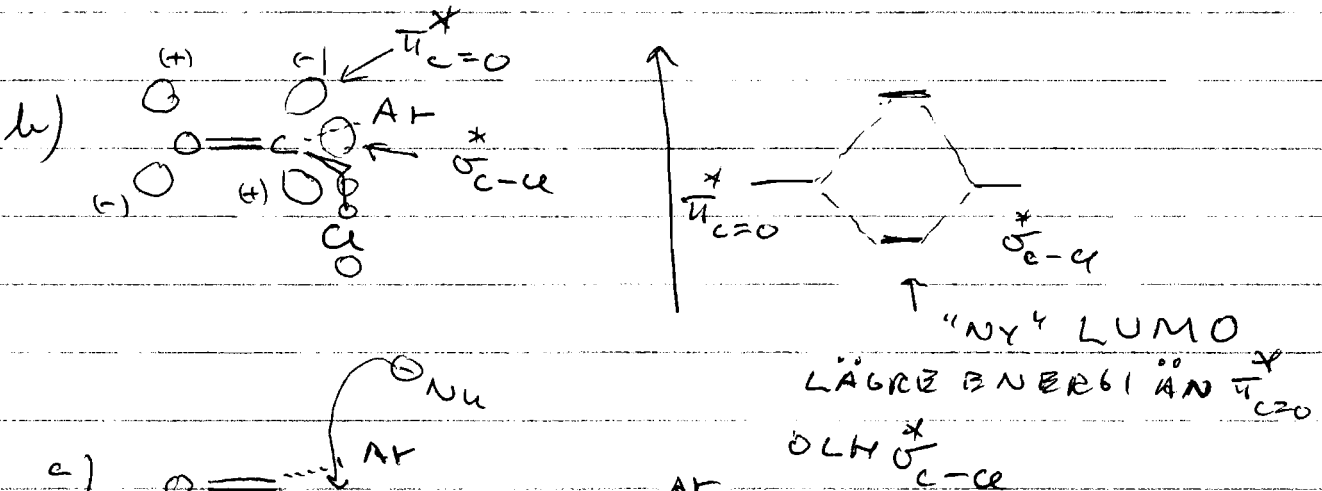
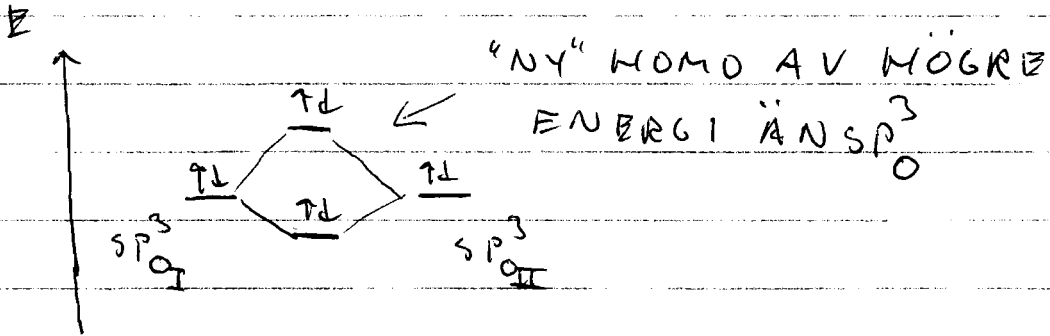
$$\Delta H \approx 69 - 83 - 1,4(50 - 37) \approx -32$$



5) a)

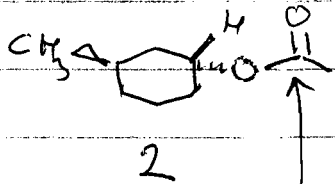
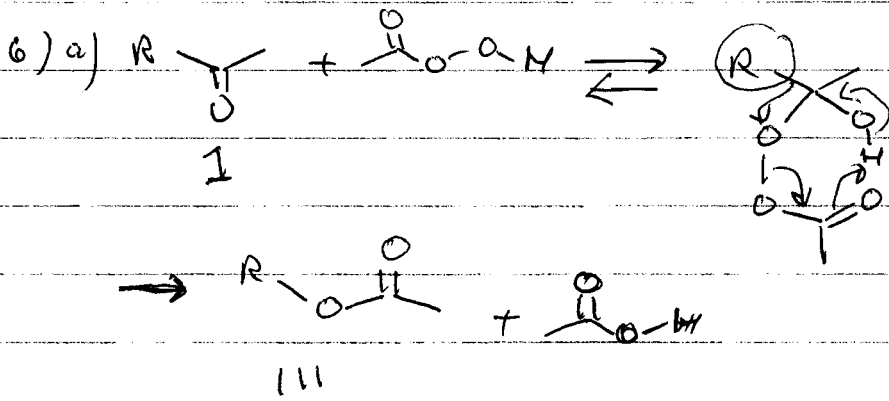
$\overset{\ominus}{\text{O}}$
 $\text{H}-\overset{\ominus}{\text{O}} \leftarrow$ ICKE BINDANDE ELEKTRON PAR PÅ SYRE =
 = FYLLED sp^3 -ORBITAL PÅ SYRE

$\text{H}-\overset{\ominus}{\text{O}}-\overset{\ominus}{\text{O}}$
 I II
 INTERAGERANDE FYLLEDA sp^3 -ORBITALEN PÅ SYRE

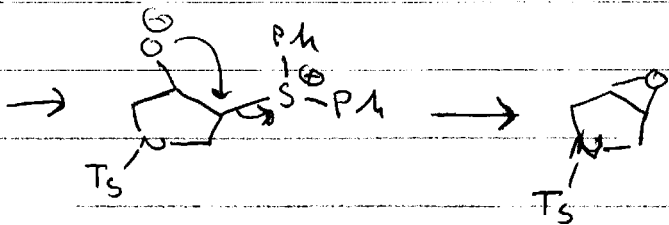
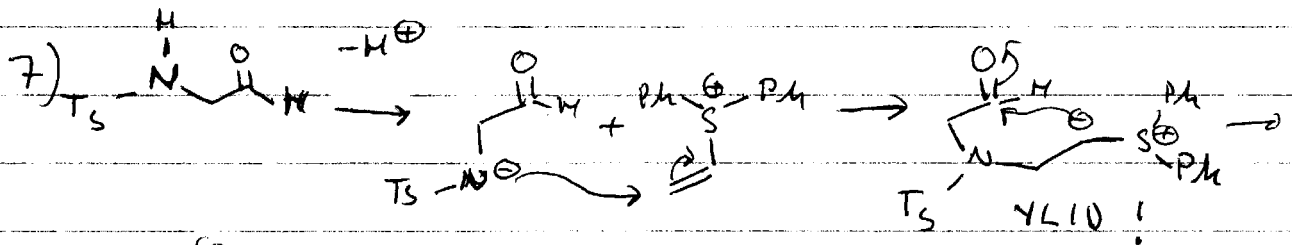
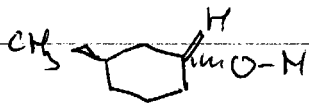
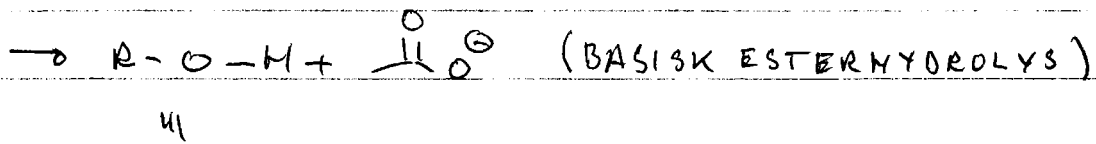
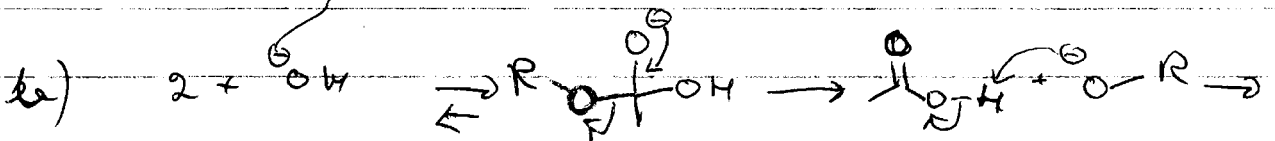


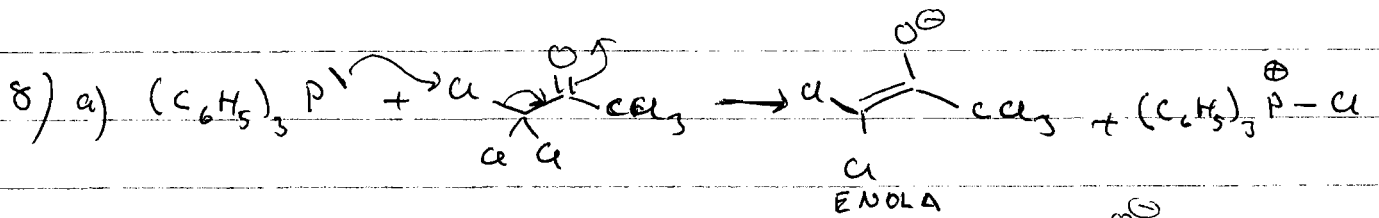
$\sigma_{\text{C}-\text{C}}$ "PARALLELL" MED p_z OCH p_o !

SE SID 424-425 I KURSBOKEN

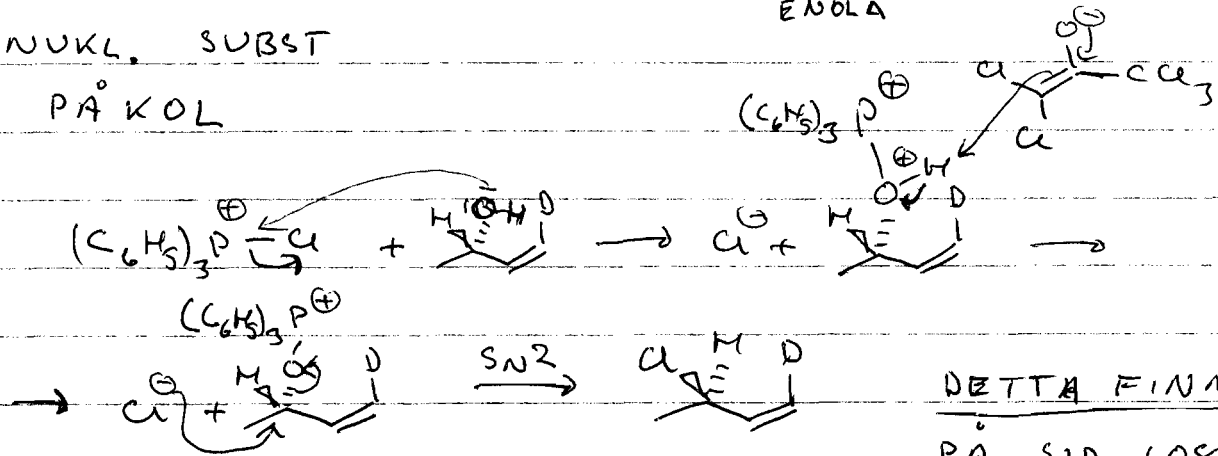


(BABYER-VILLIGER) OMLAC-RINGEN SKER MED RETENTION

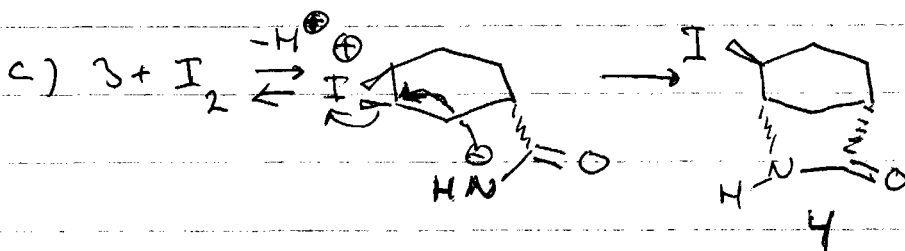
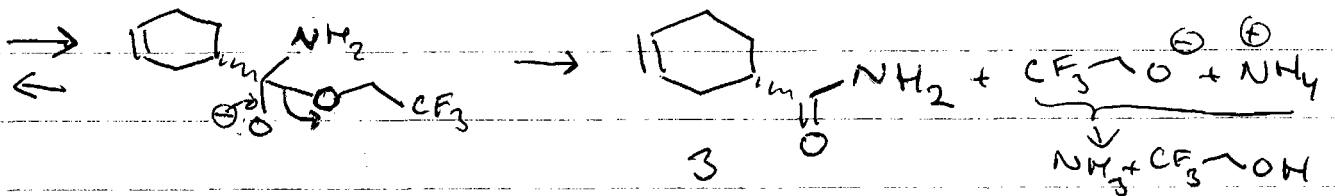
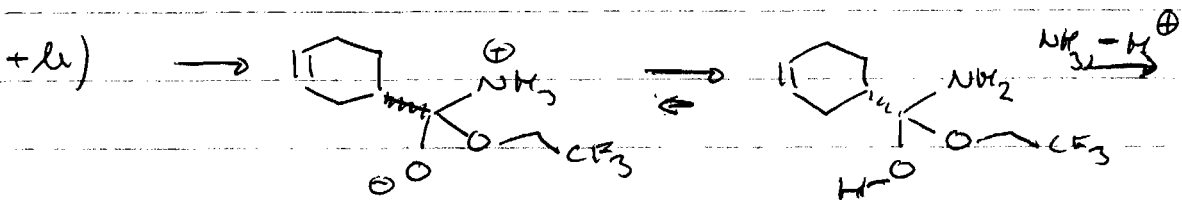
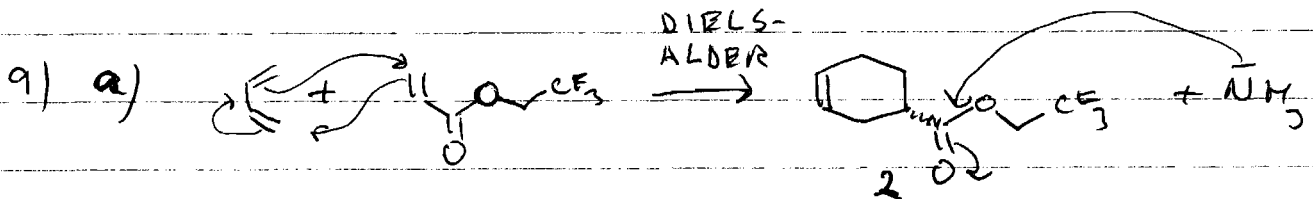
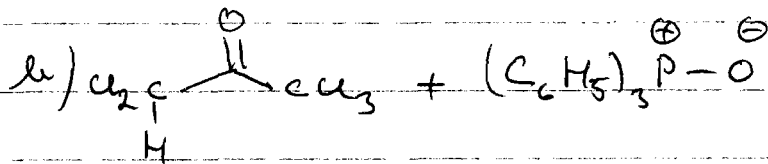




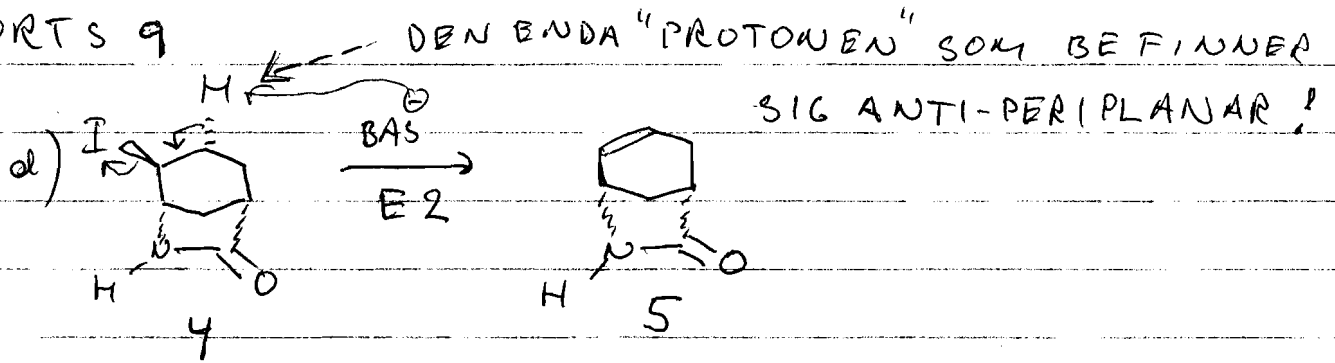
NUKL. SUBST
PÅ KOL



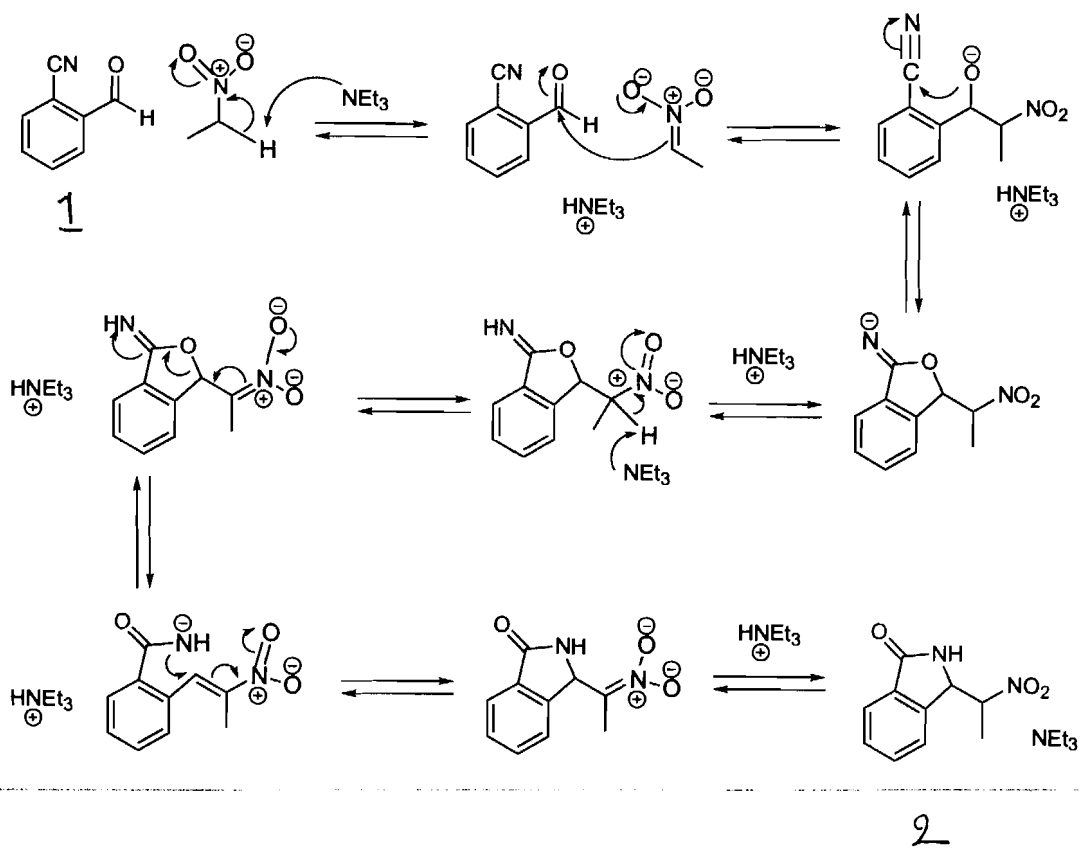
DETTA FINNS
PÅ SID 608-609
I BOKEN



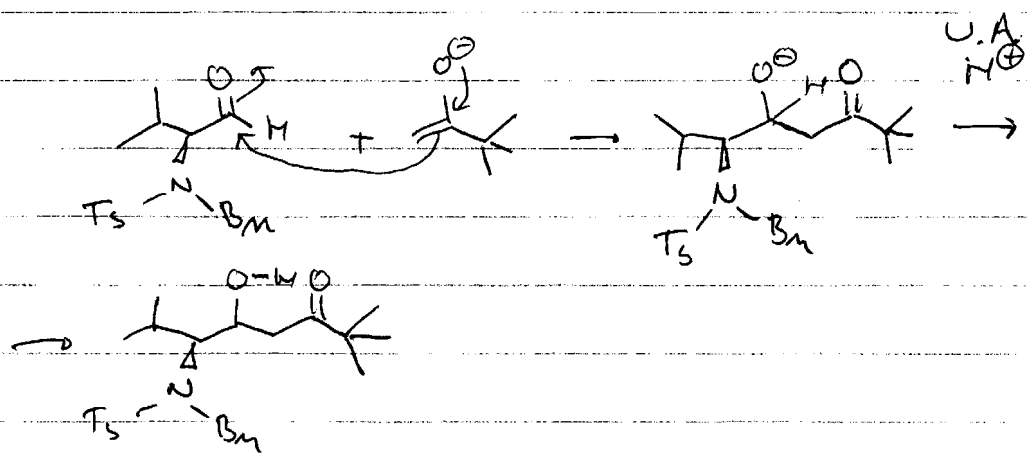
FORTS 9



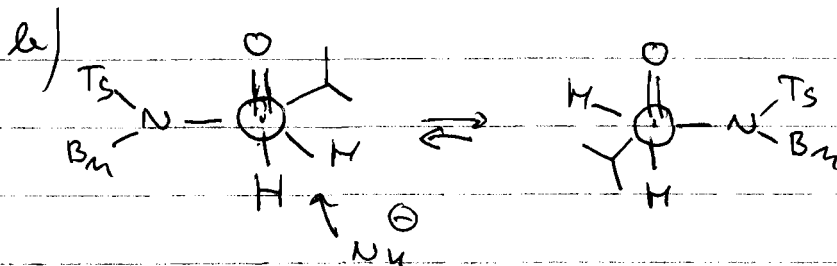
10)



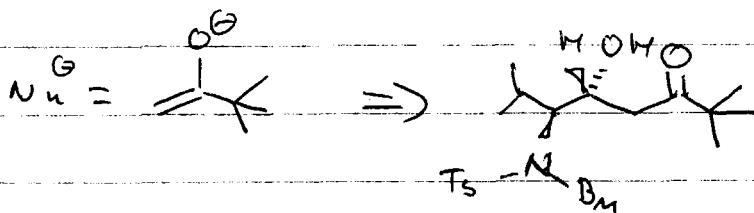
11) a)



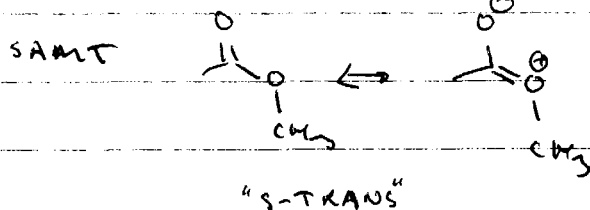
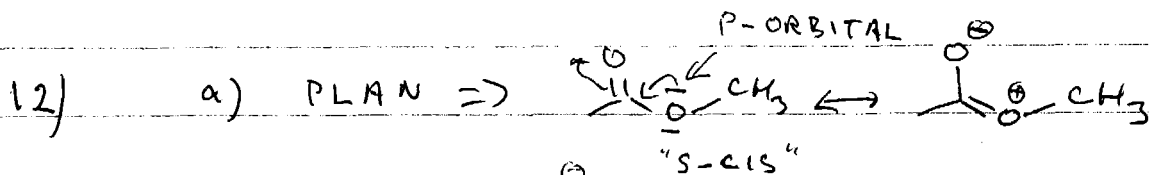
FORTS II



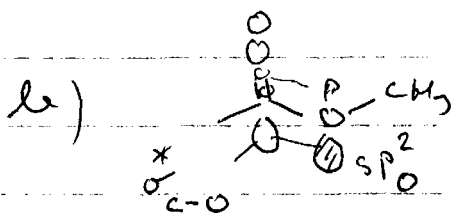
FÖREDRAGEN VÄG FÖR ATTACK



SE SID 888-891
I KURSBOKEN

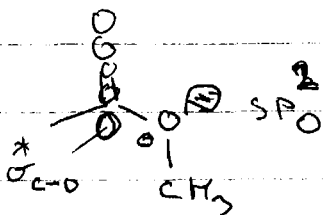


BÄST ÖVERLAPP
MELLAN P-ORBITAL
PÅ SYRE OCH $\pi_{C=O}^*$
OM ESTERN ÄR PLAN



ÖVERLAPP MELLAN
 $\sigma_{C=O}^*$ (TOM) OCH sp^2 (FYLLD)
I S-CIS

SÄMRE ÖVERLAPP I S-TRANS



SID 1133-1134
I KURSBOKEN