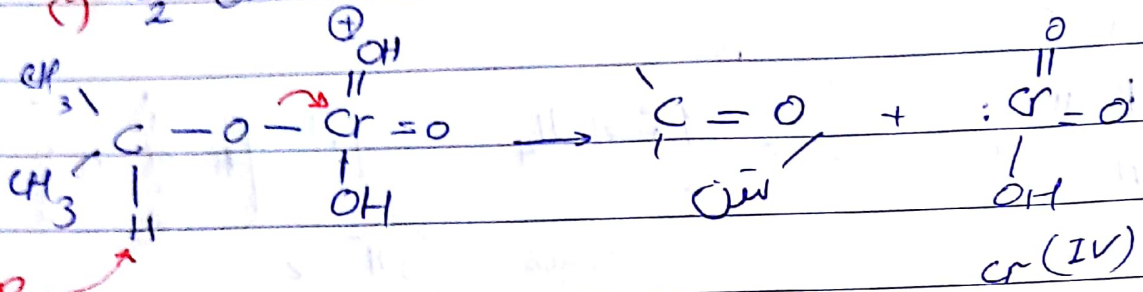
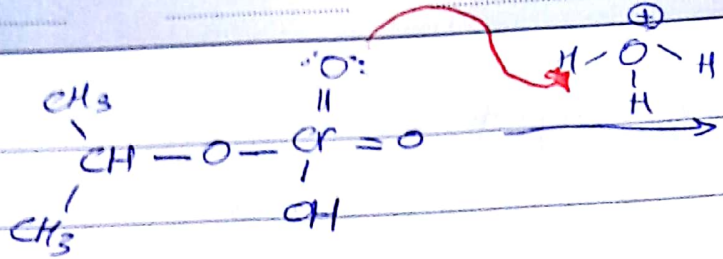


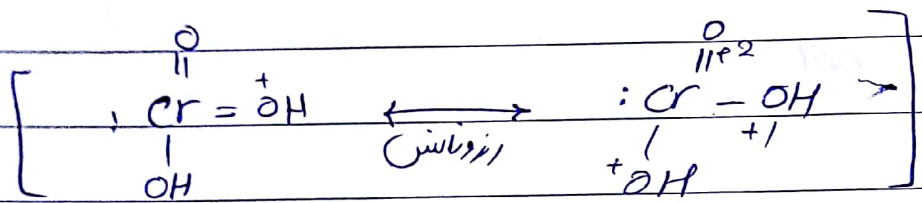
1) تشکیل استر

2) ...

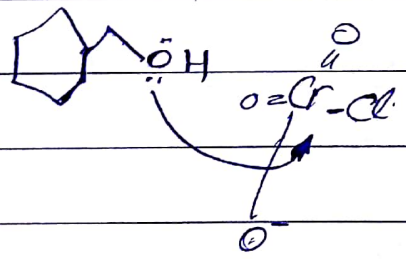
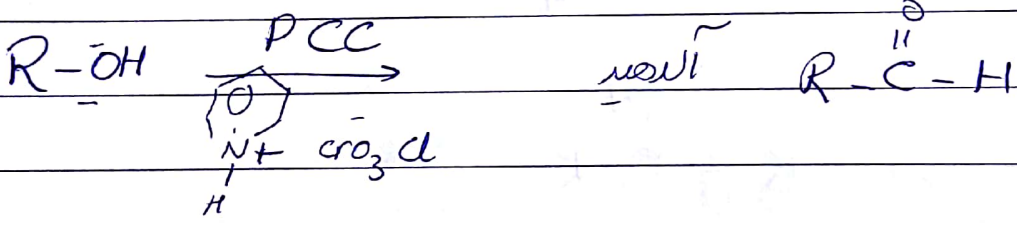
3) E₂ حذف



(H₂O)



کتاب؟



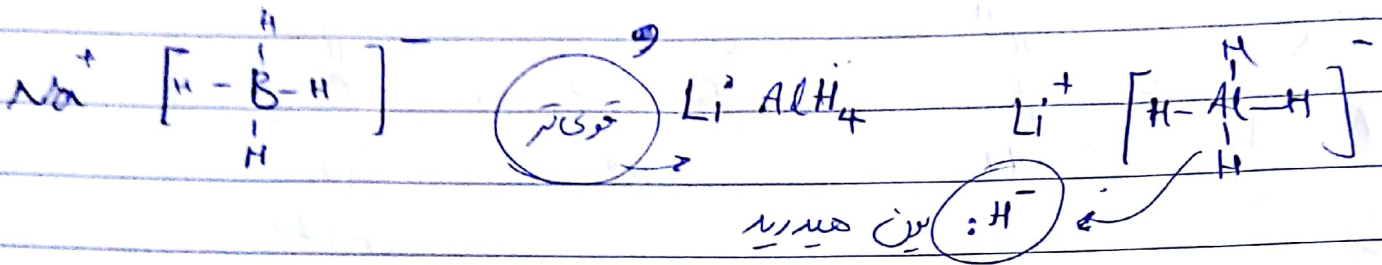
(استر)

Reducing Agent

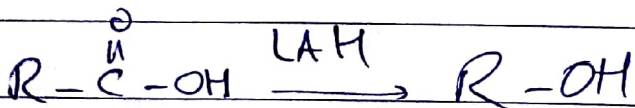
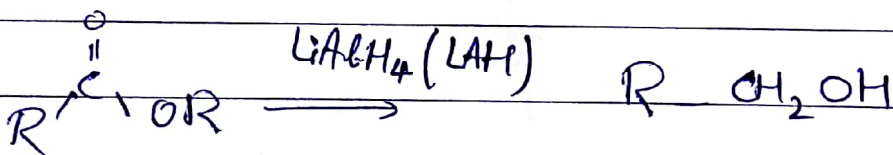
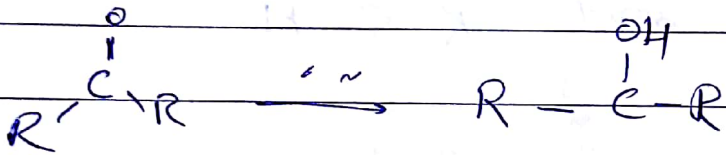
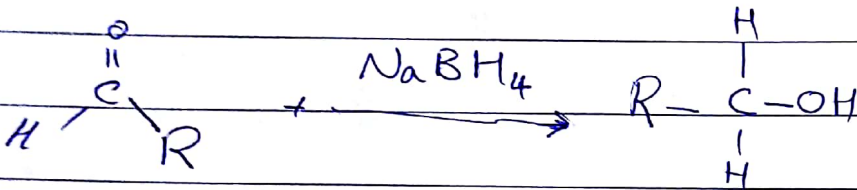
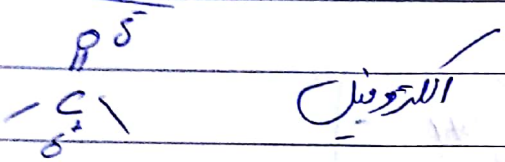
مختزل الکحل

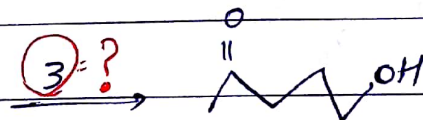
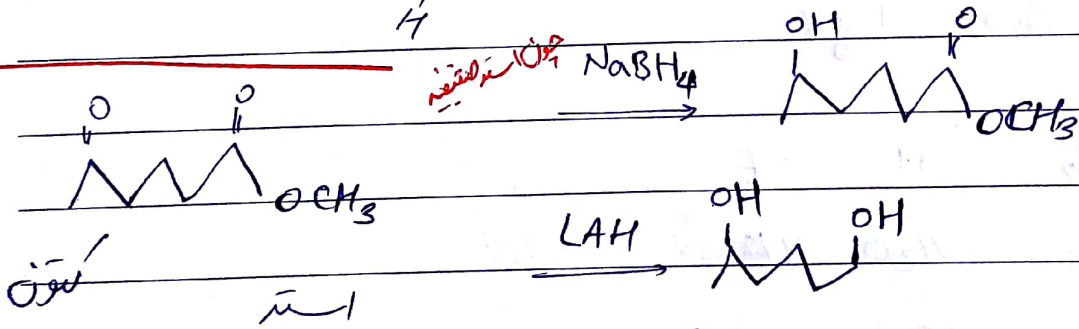
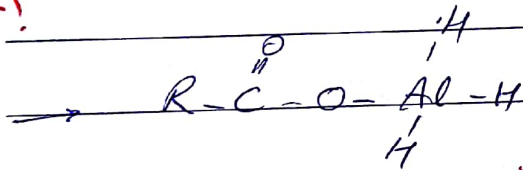
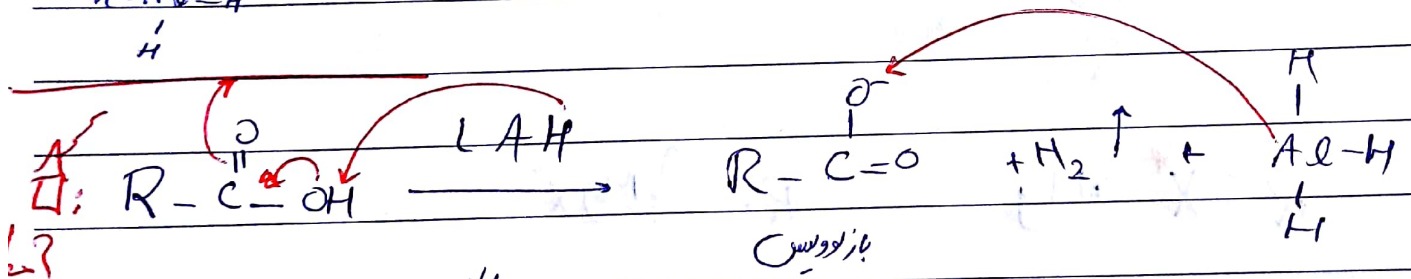
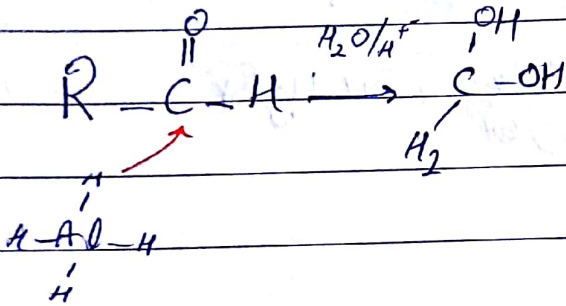
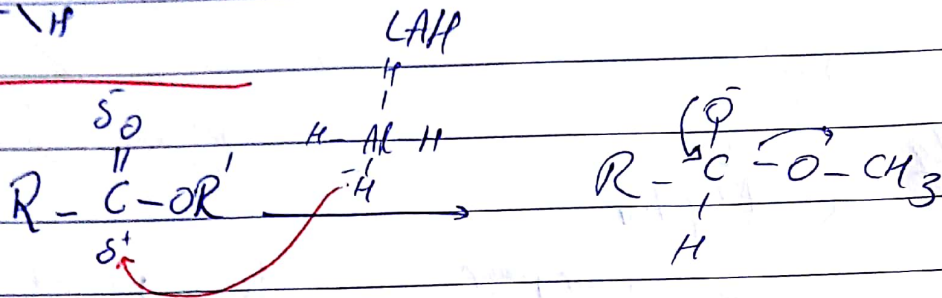
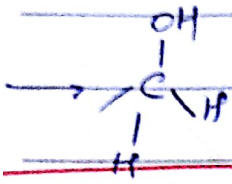
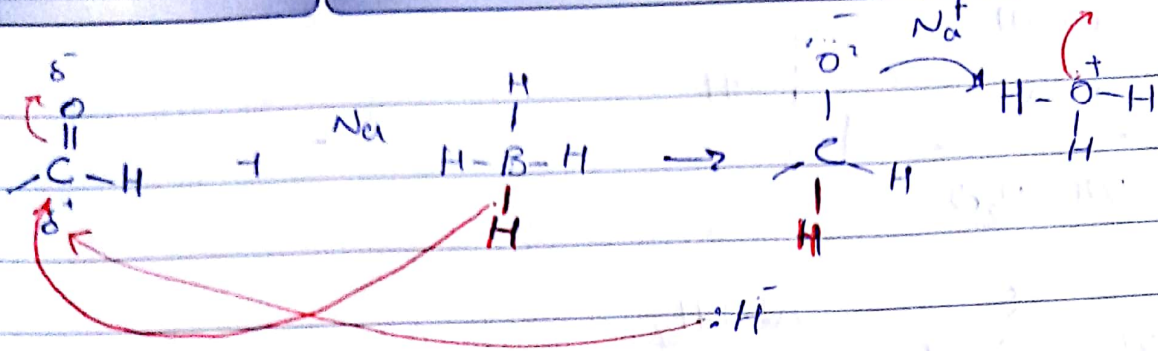


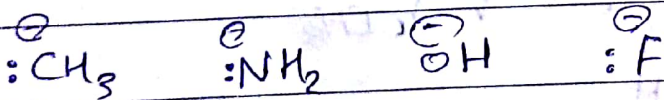
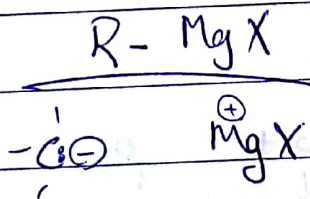
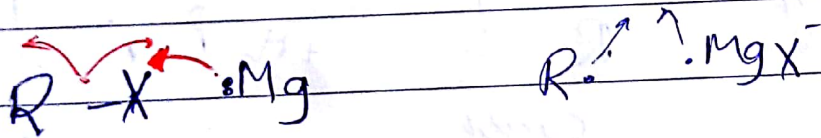
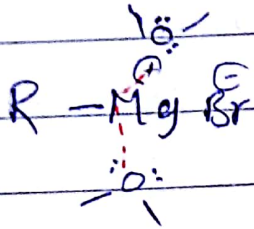
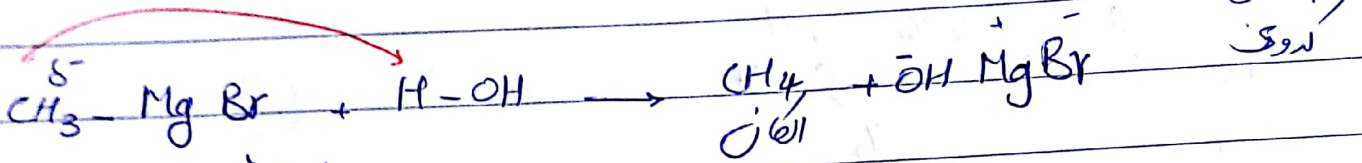
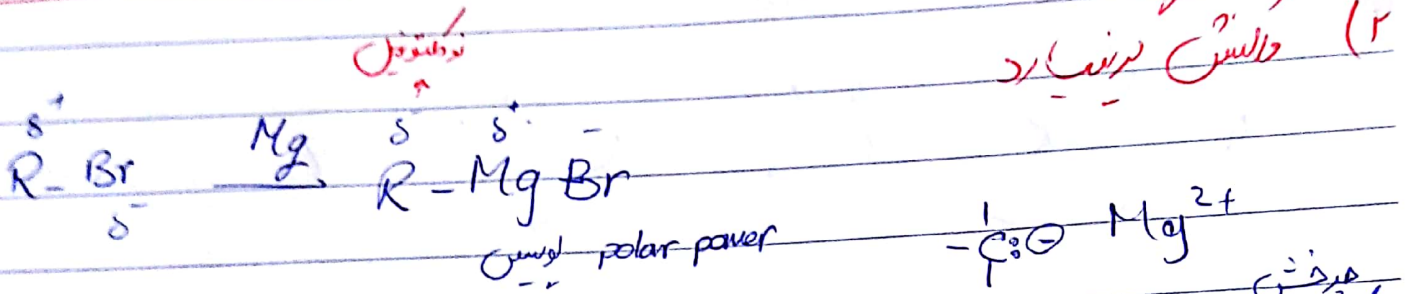
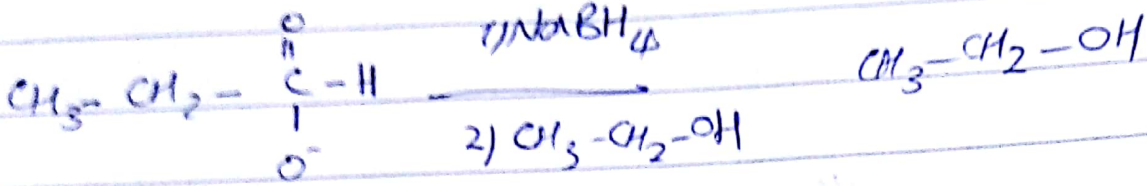
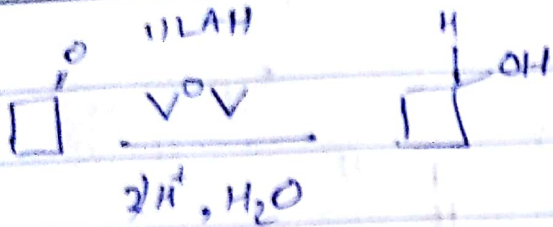
(۱) کاهش کربونیل به الکحل

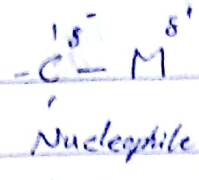
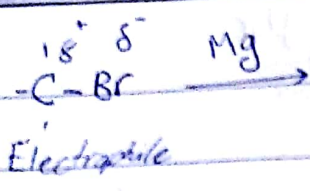


تفاوت بار مقدار پروتون و بار منفی









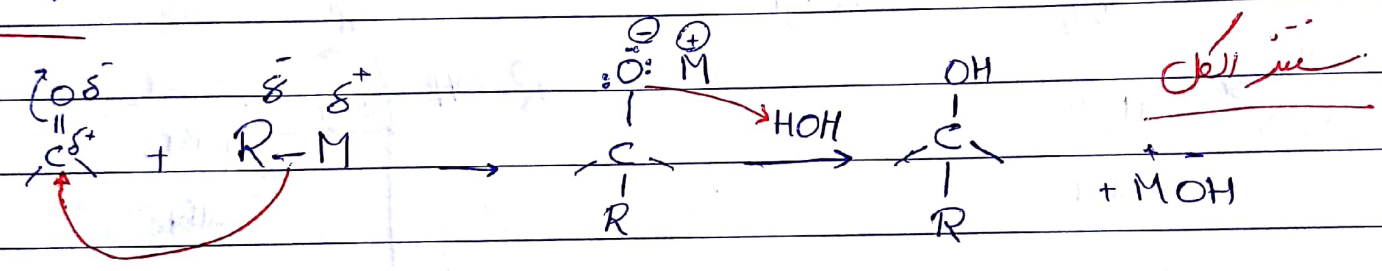
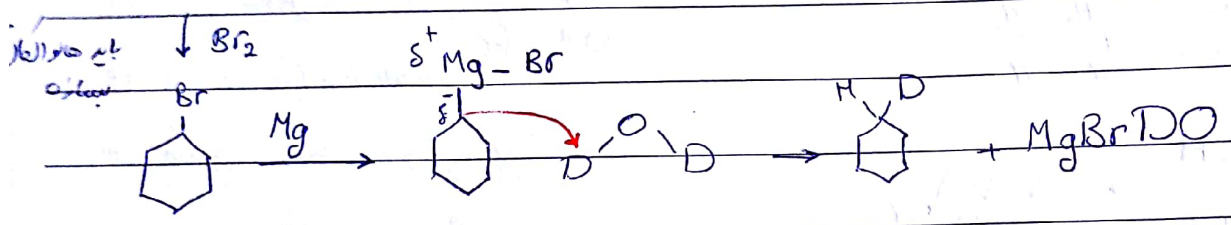
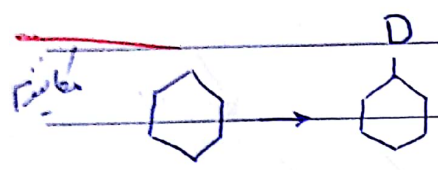
مولکون این دو حالت میسر



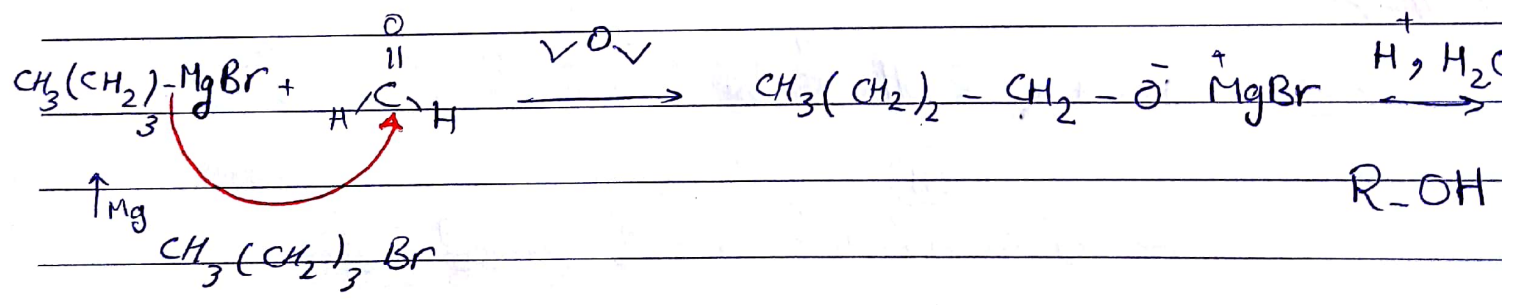
دشمن این واکنشها: آب و سایر مولکولهای پروتیک

$pK_a \approx 50$ قوی

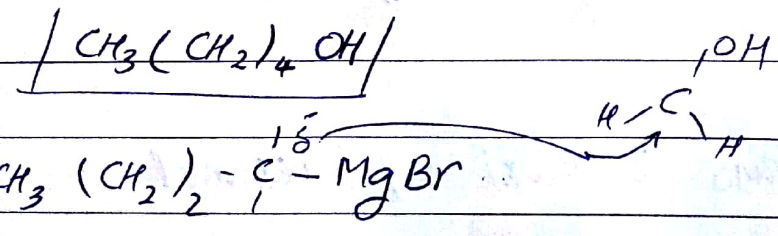
چرا؟ چون H را میگیرد. ولی مولکول پروتیک ضعیفتر از این است.

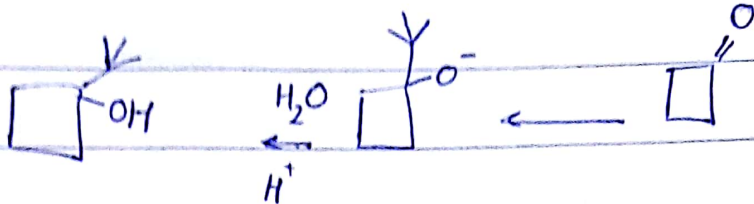
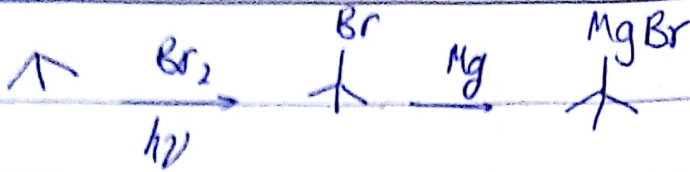
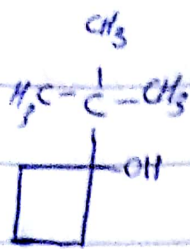


مثال:

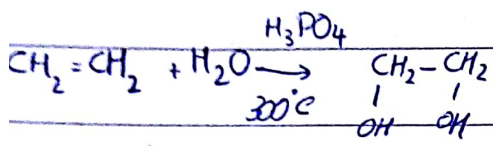
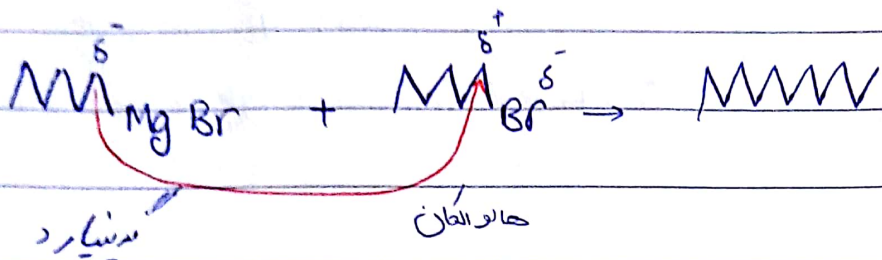


مثال: این الکل را با ترکیبات مناسب بسازید.

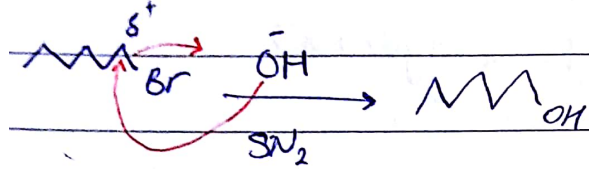




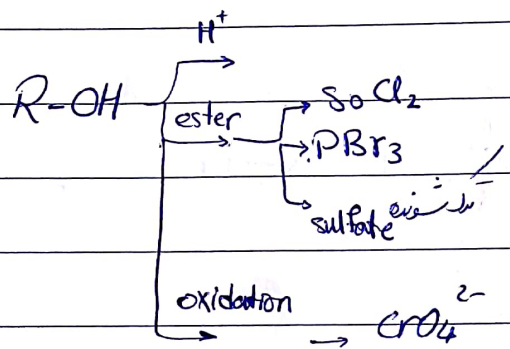
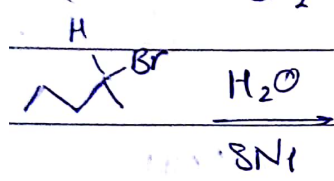
غیر اپتی



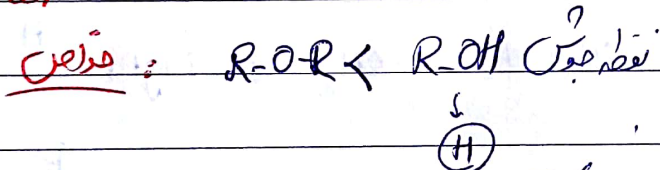
(1) اسی کے ٹوٹنے سے الکل Sec
(2) والٹن لیٹریٹ کے ساتھ



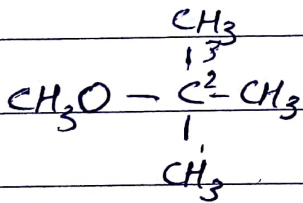
(3) جلیبی - ہندو



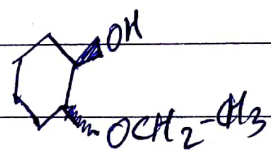
Ether



دو قسمی (دو قسمی) سے → دو قسمی کتاب زیادہ باہر سے آتا

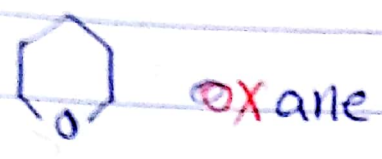
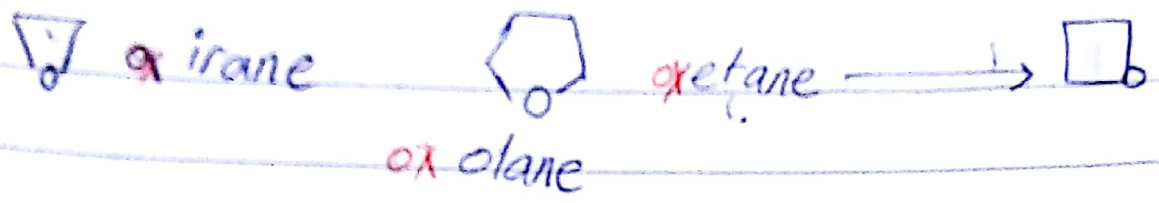


2-methoxy-2-methyl propane

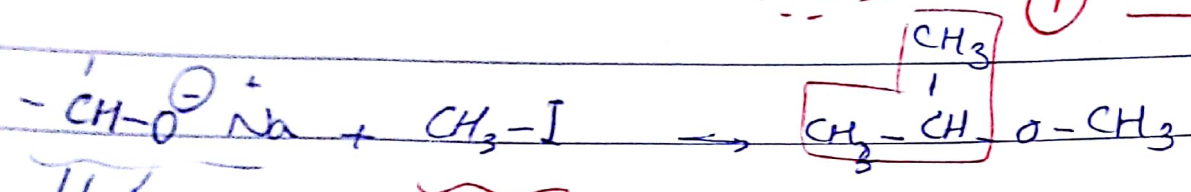


trans-2-ethoxy cyclohexanol

Sadat



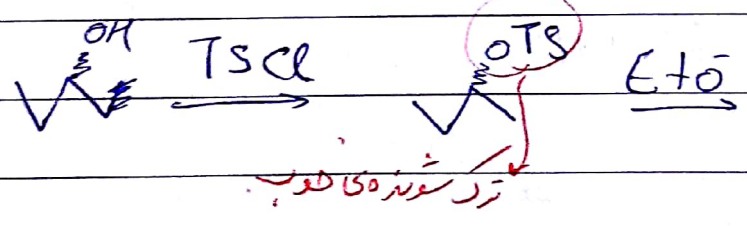
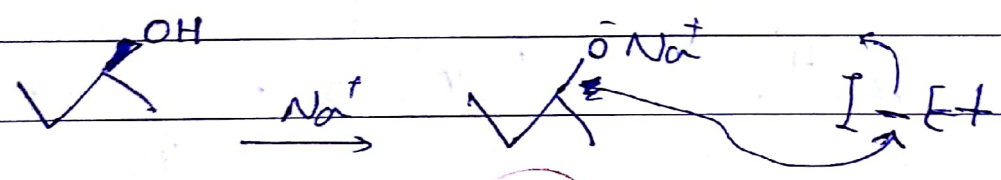
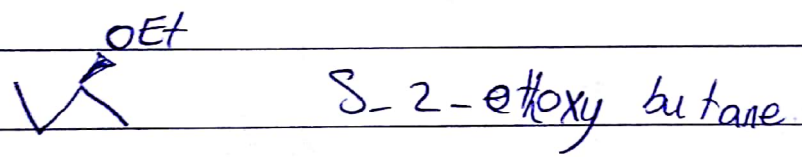
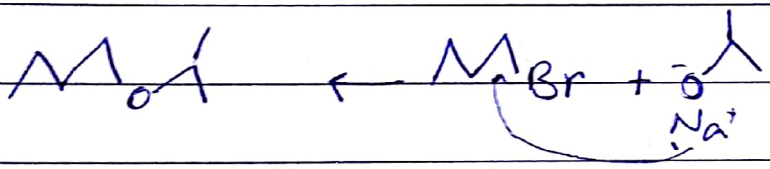
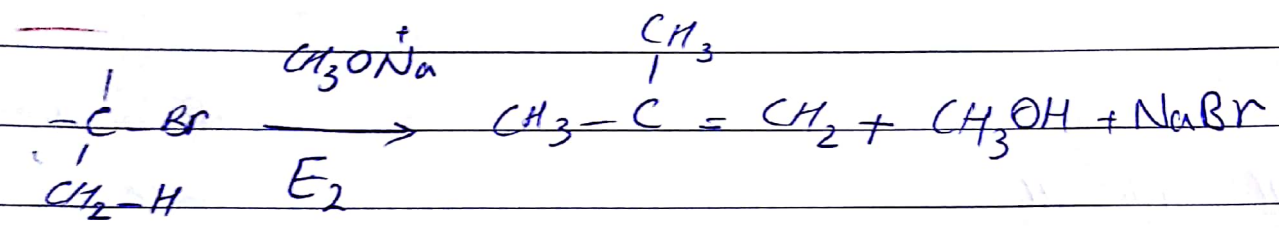
① سنتز اولیاء
 سنتز آنتی



الیومیناسیون
 و پتانسیل Na⁺
 و باغج سین CH₂

reagent سین
 SN₂

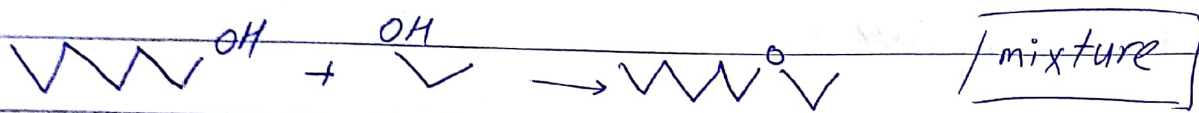
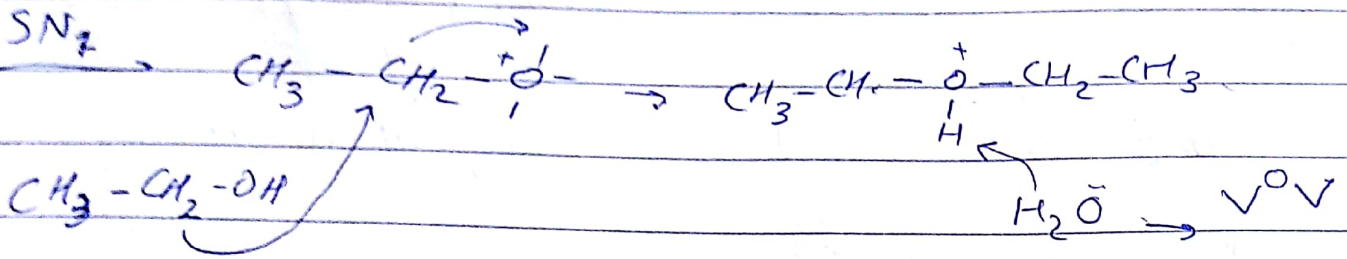
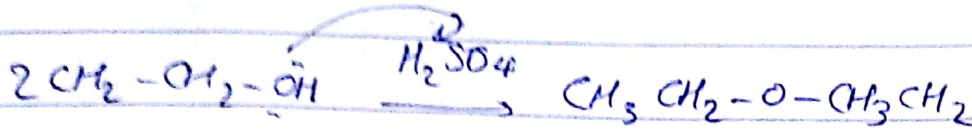
2-methoxy propane



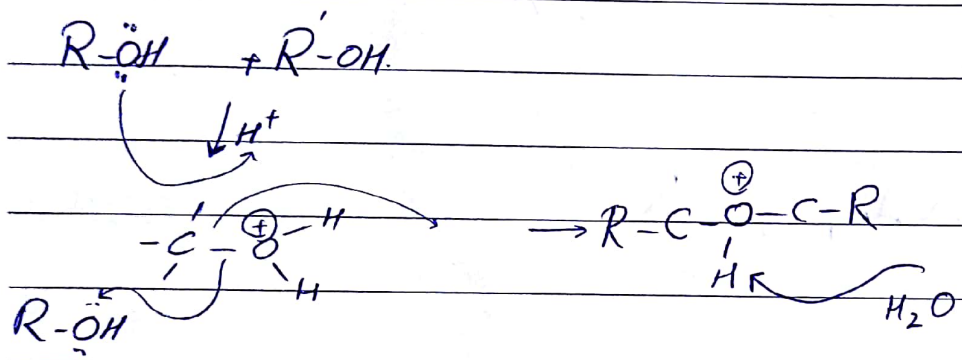
2-نویز اولیاء

تدریس شیمی آلی

2) Acid Catalyze Alcohol



... is SN2 for primary alcohol



3) Acid Catalyze alkene

