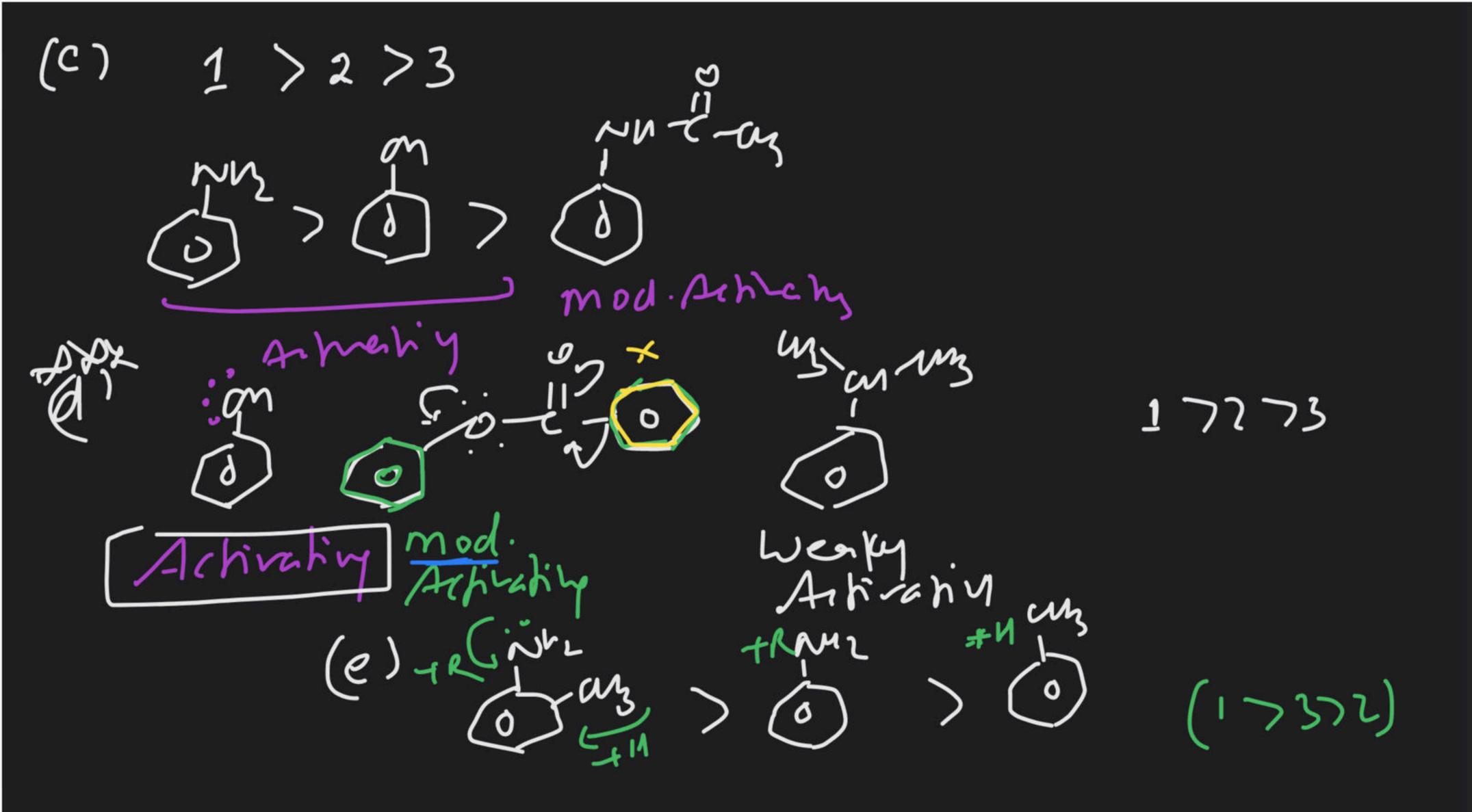
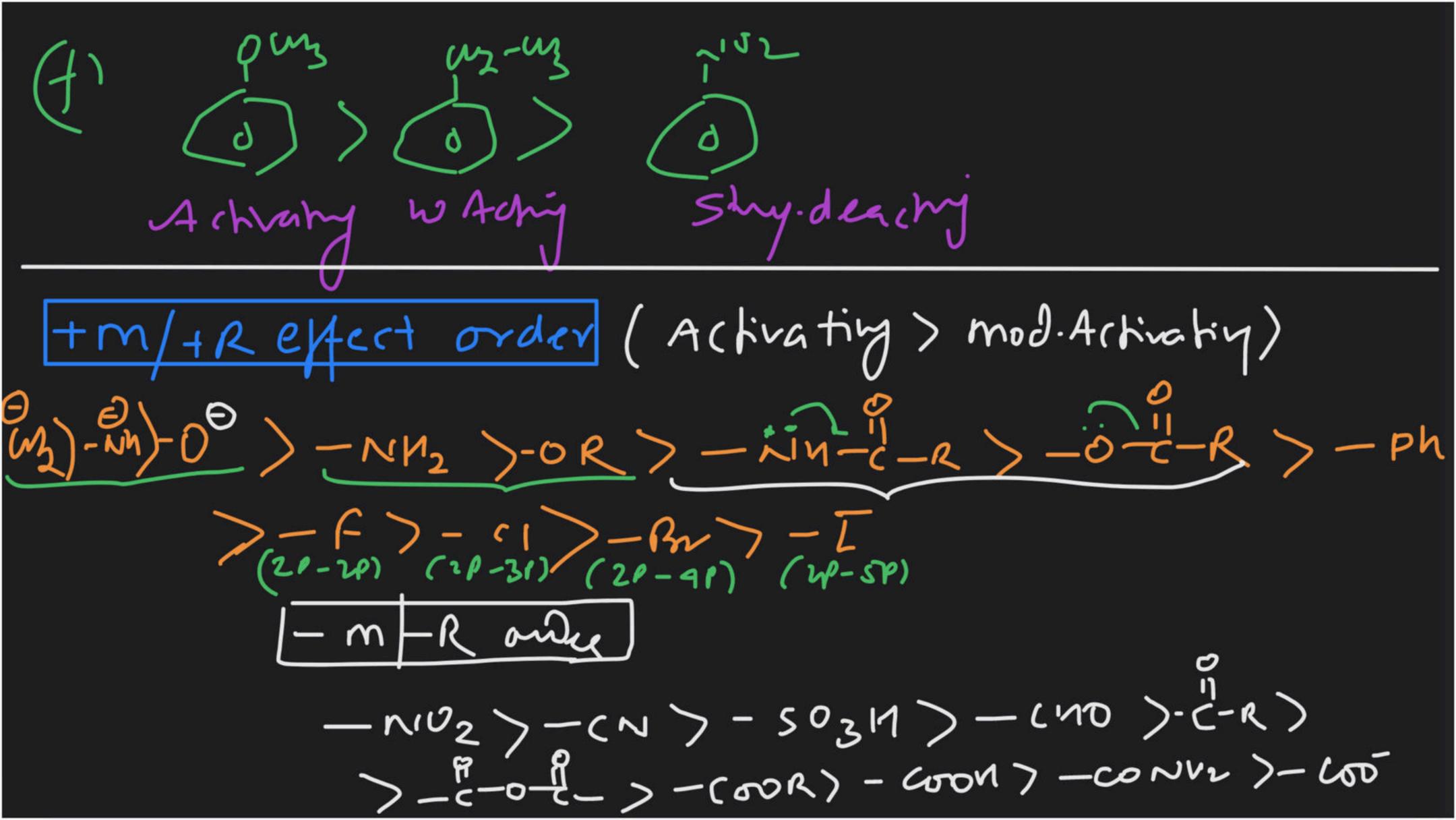
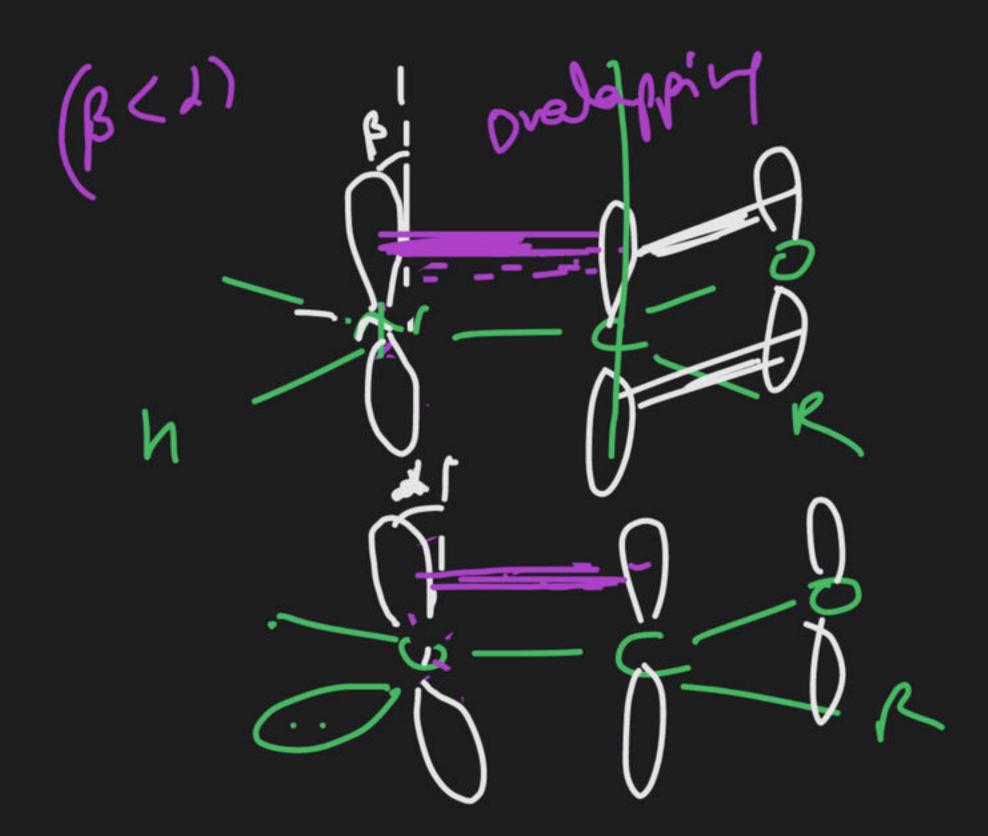


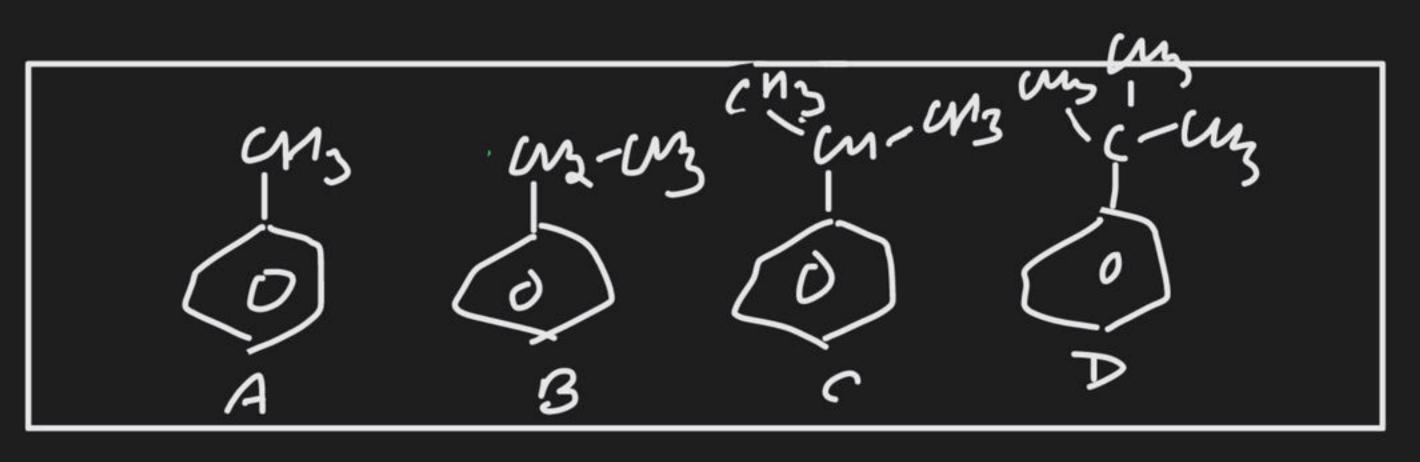
Course on General Organic Chemistry (GOC) for Dropper 13th students

(8=1-38) me (Discussion) phenoxide ion => 5 RS (1-)273)











memy Etnyl iso-hopy tertiang
Benjare Benzar Butyel
Benzare
Tolvere Comene

order of rate of electrophilic attack

But Experimental observation shows that order is reverse

A>B>C>D (Accito \_\_\_\_ effect)

This order Centre Explained by assuming ovelopper with Tousitul of Benjulic N C-M Bond. Higher the NO. Bonds higher we be such Overlapping & higher (hypercojyaky 44mid)

was be electron density in Benzere. This phenomenon is known as Hyper Curjystion. Displacement of Relection durity due to of cond of directly attached groop is known as Hyper conjugation effect of that prove.

Note (i) Its permanent effect

(ii) N-effect is weaker than R effect (iii) - Styre than. I effect (iv) exectioness ander /R > H > L

(vi) Cond' for 11 effect

SP3

(VII) Maffed involves J-p orbital overlapping

(1x) Orbital overlapping during hyper congression in following.

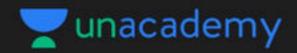
(a) (N3-LN2 (N)

(a) (N3-LN2 (N)

(b) (1)-p(v) J(+)-p(v)

(x) Meffect also depends on Bond Shryth. Type of Meffect (1) + Meffect Displacement of R c derity away to directly or Herched alkyl group due to Its  $\sigma(C-n)$   $\int_C = C$  in Bond is known as its +n exect. known as its +n exect.

Exi Propue



## ▲ 4 • Asked by Ananya

Sir mere isme 6 RS aa rhe h

