

ORGANIC NAMED REACTION ^{1.}

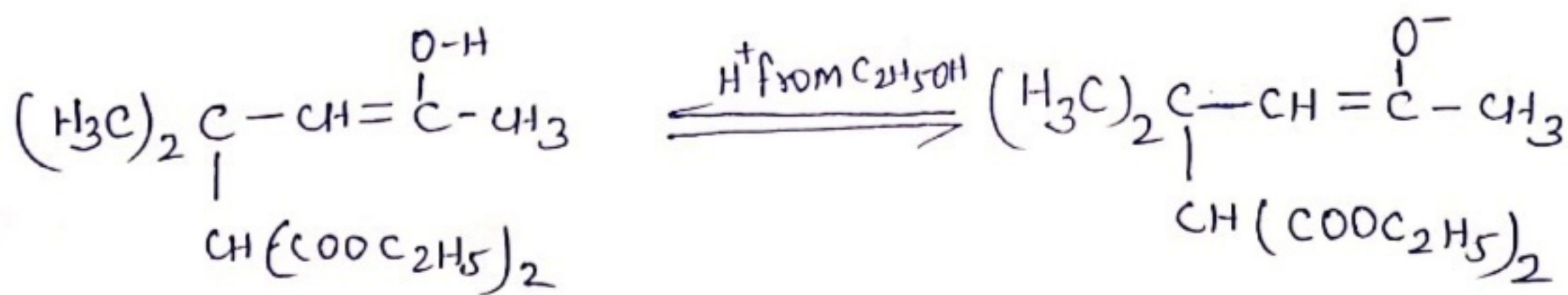
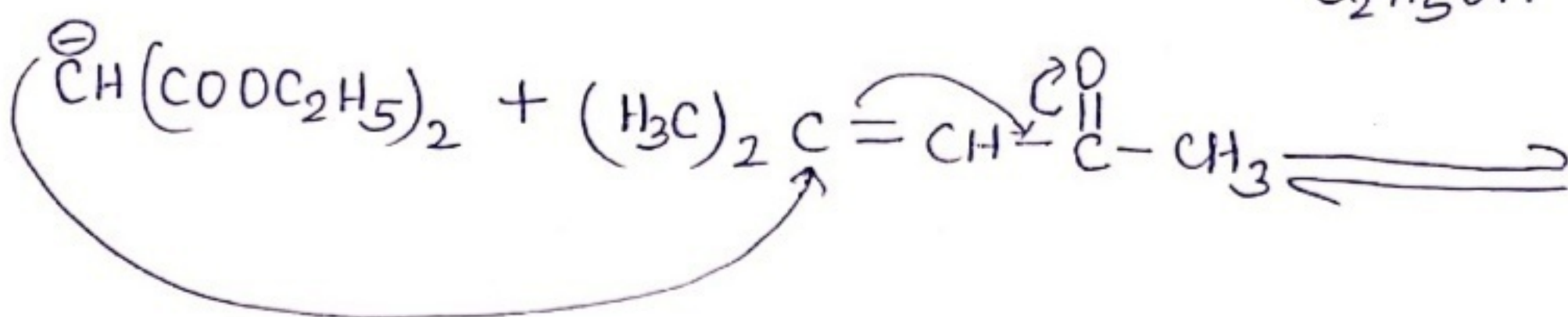
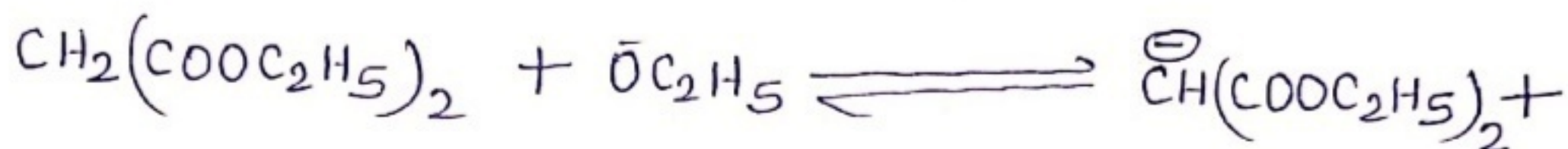
DEGREE-III (H), PAPER-VII, LECTURE-4

MICHAEL ADDITION REACTION (CONTINUED..)

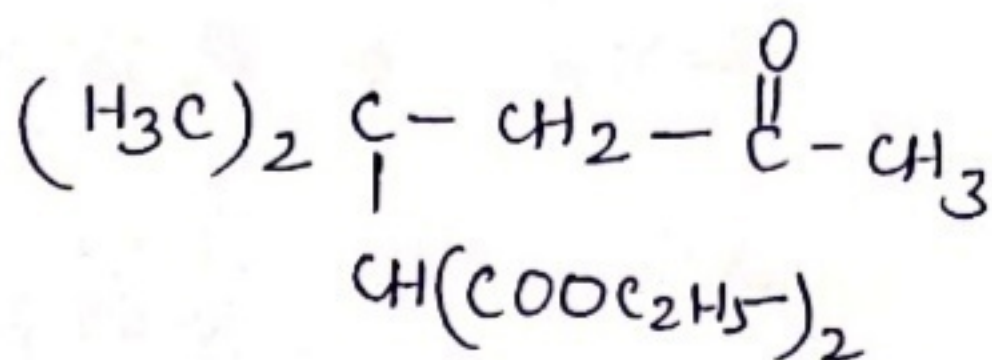
SYNTHETIC APPLICATION

(Continued..)

3. Synthesis of Dimedone : 12/09/2020



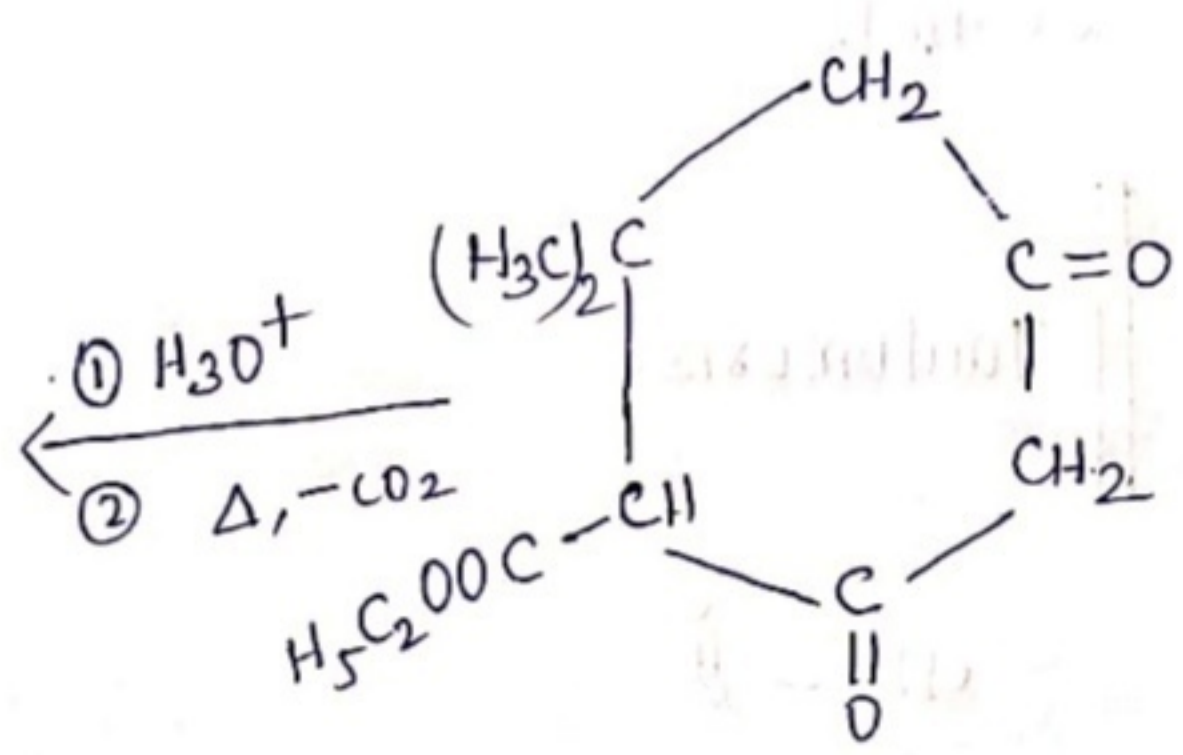
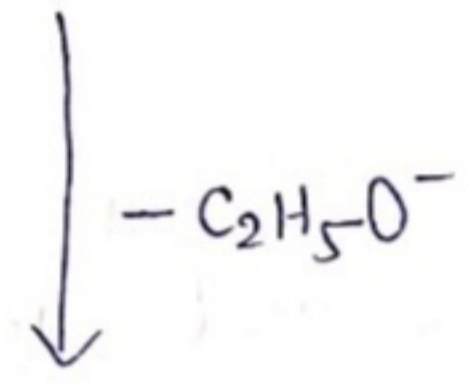
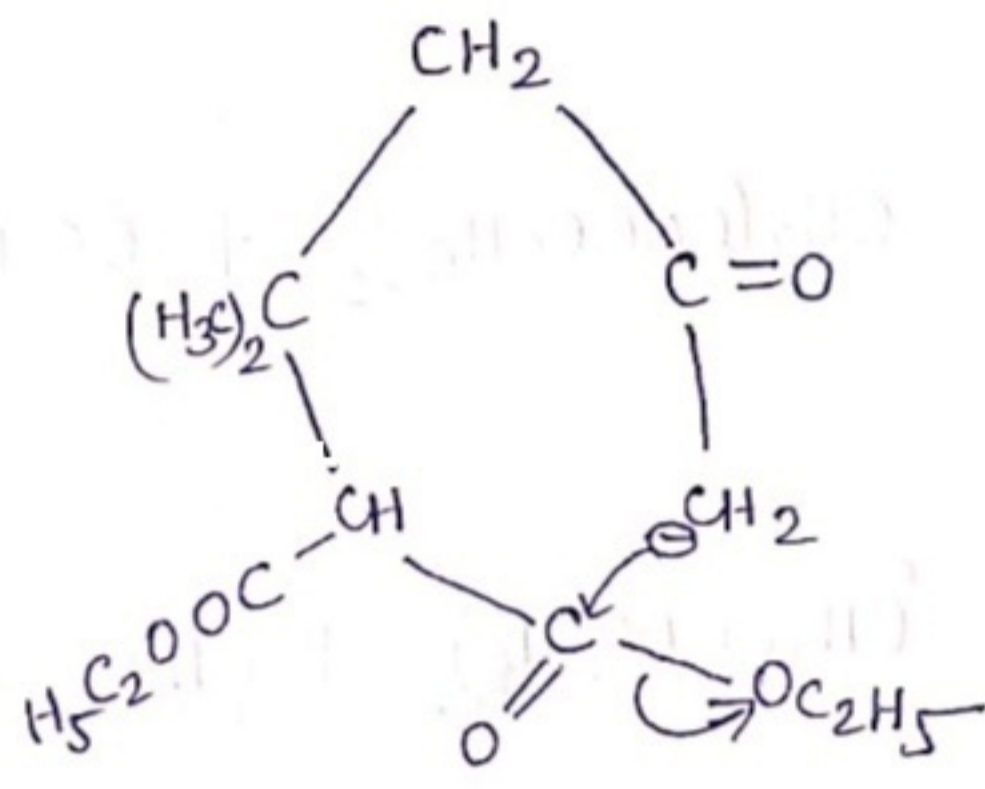
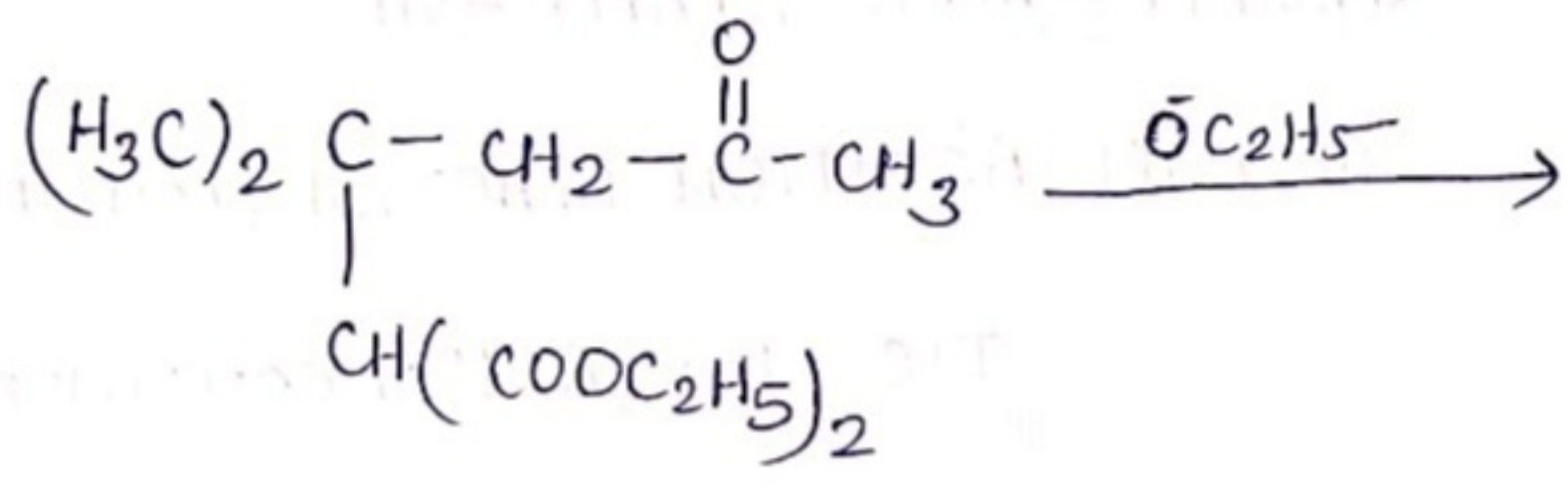
↑
Tautomerise
↓



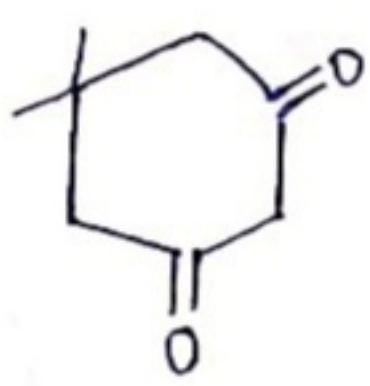
By:-Dr.Rinky
Dept.of Chemistry
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12/09/2020

* Michael addition is followed by an internal claisen condensation, the product obtained is dimedone.



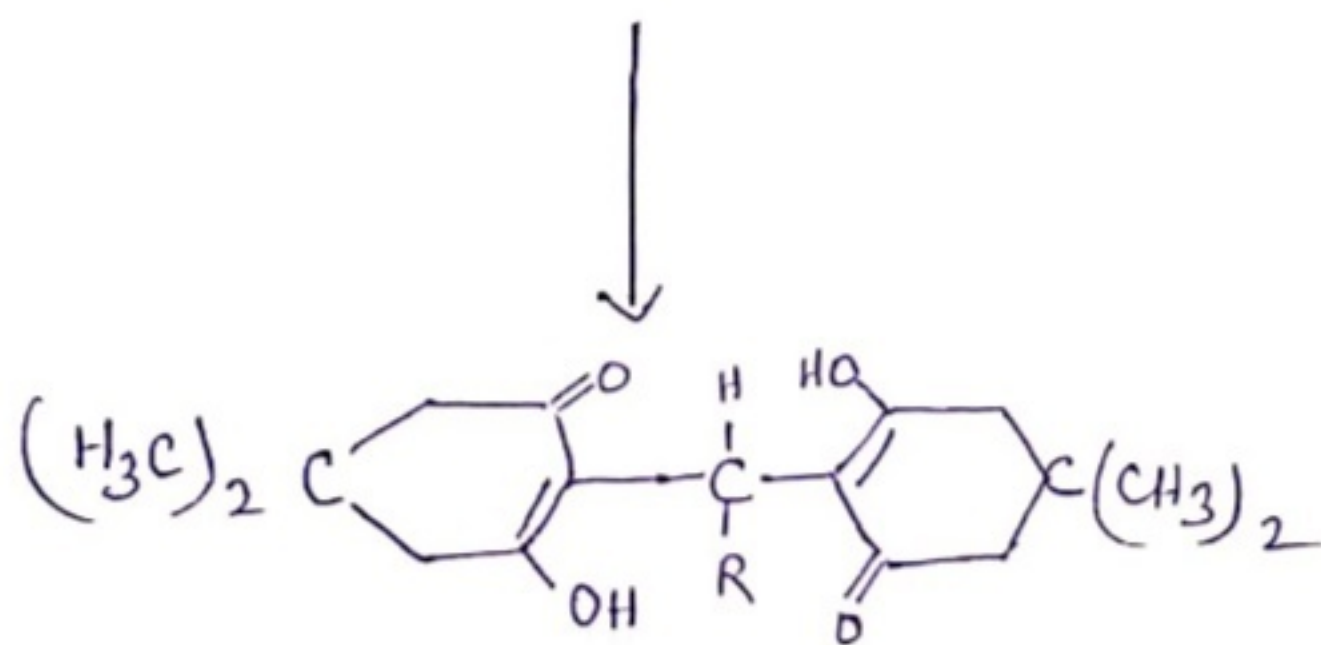
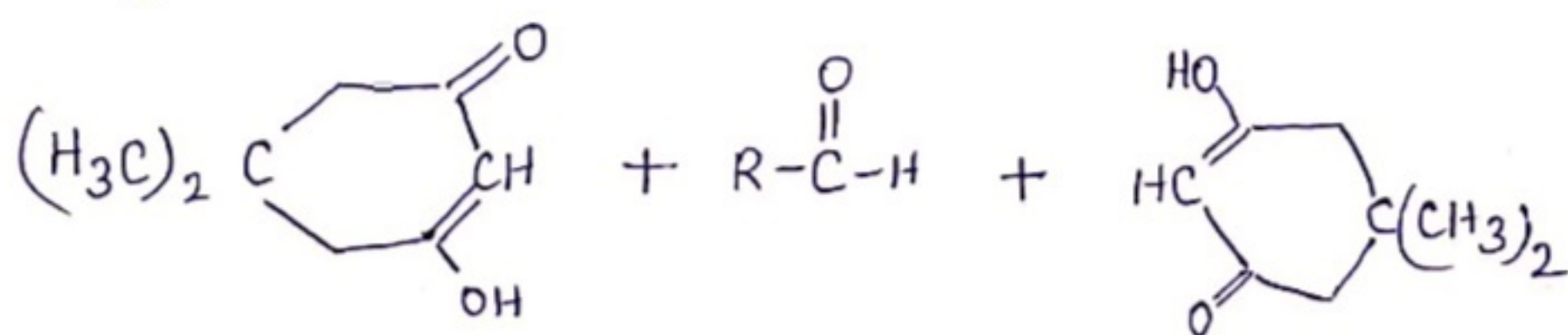
- ① H_3O^+
- ② $\Delta, -CO_2$



Dimedone

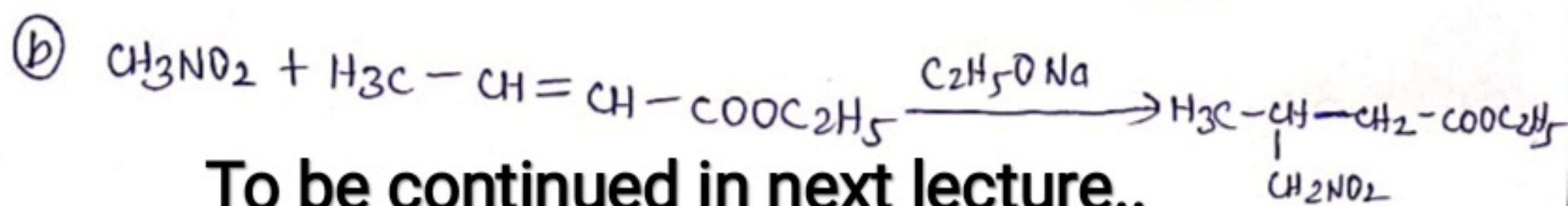
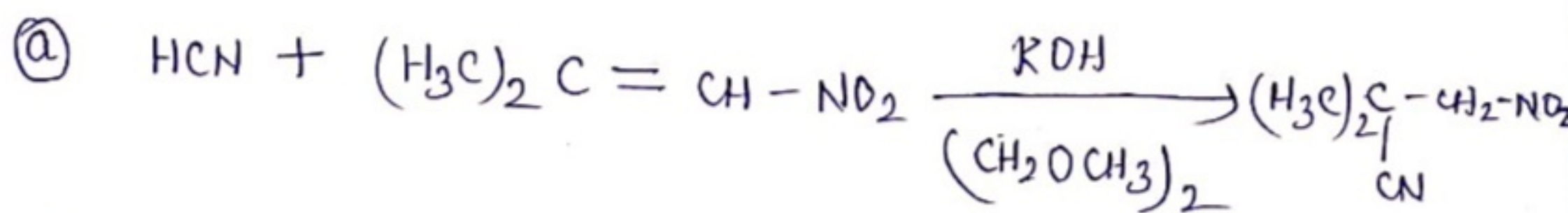
3.

* Dimedone is also employed for the separation of aldehydes from ketones because it reacts only with aldehydes.



* Reaction with formaldehyde is quantitative and hence, the reagent is used for the quantitative estimation of formaldehyde.

4. Synthesis of Cyano & Nitro Compounds



To be continued in next lecture..