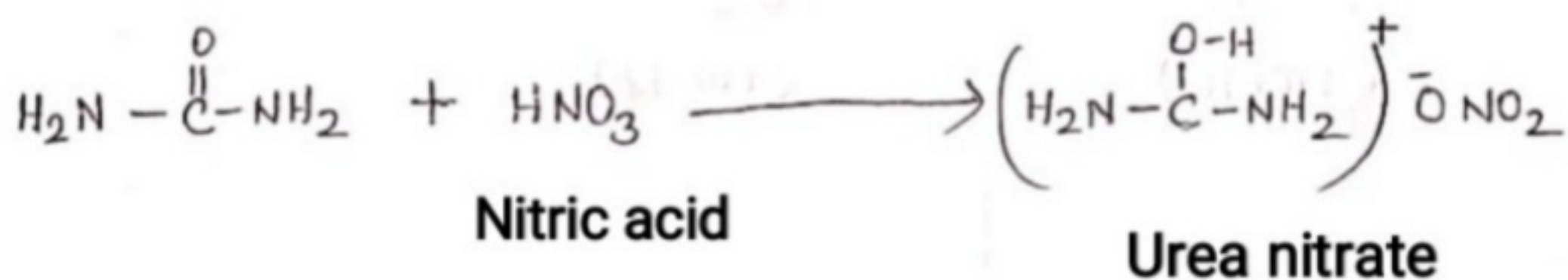
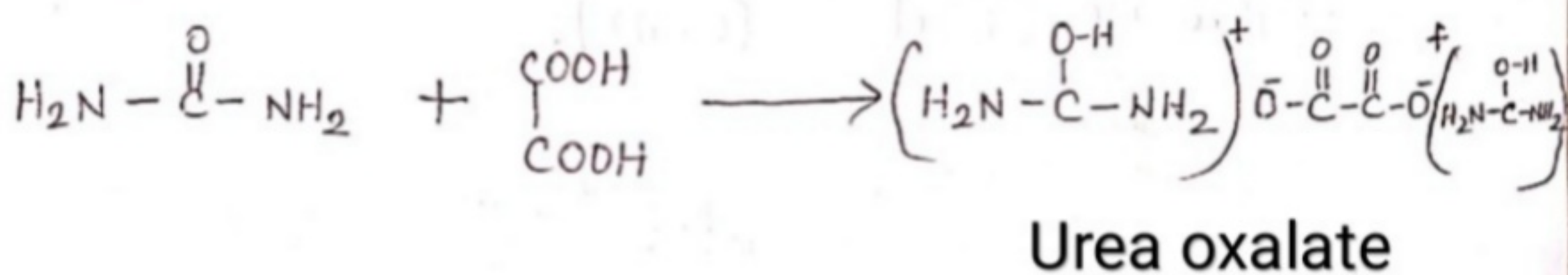


Some Important Reactions Of Urea^{1.}

Degree-I (Hons.), 12/11/2020

1. Salt Formation :-

It forms stable, water-insoluble salts with HNO_3 (Nitric acid) and Oxalic acid. With nitric acid it forms urea nitrate and with oxalic acid it forms Urea oxalate.

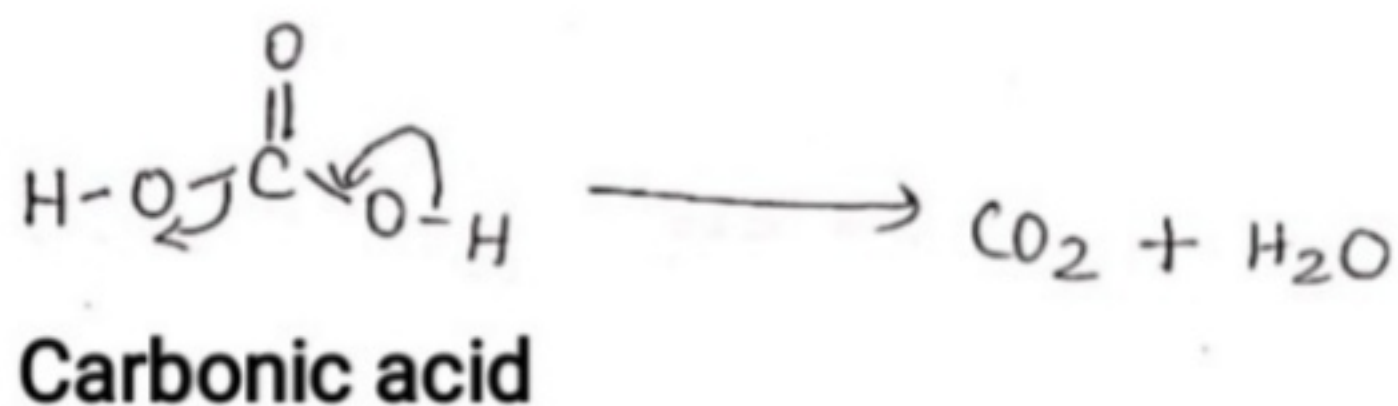
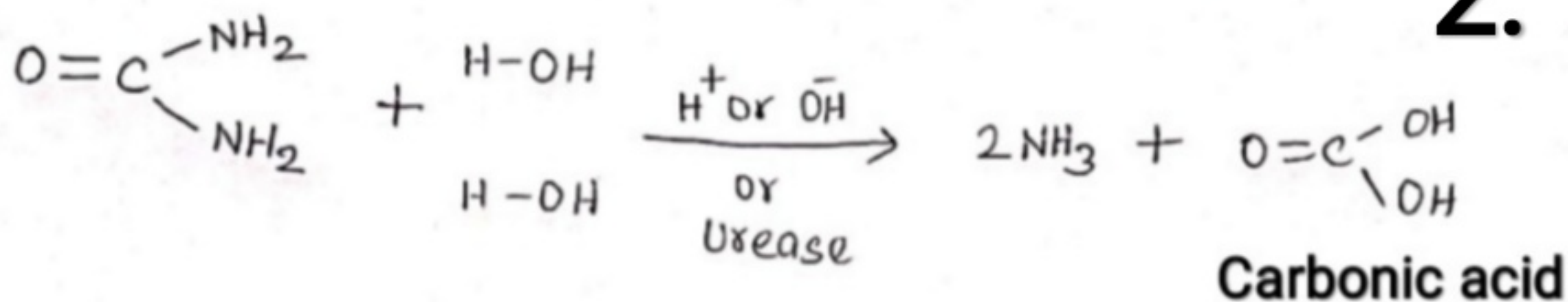


2. Hydrolysis :-

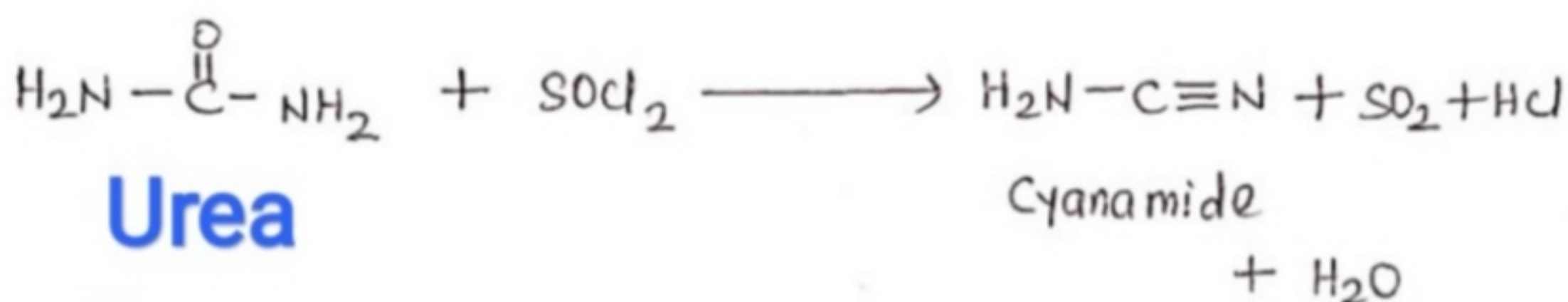
On heating with dilute acids or dilute alkali, urea is hydrolysed to give carbon dioxide and ammonia.

Hydrolysis can also be brought about by the enzyme urease.

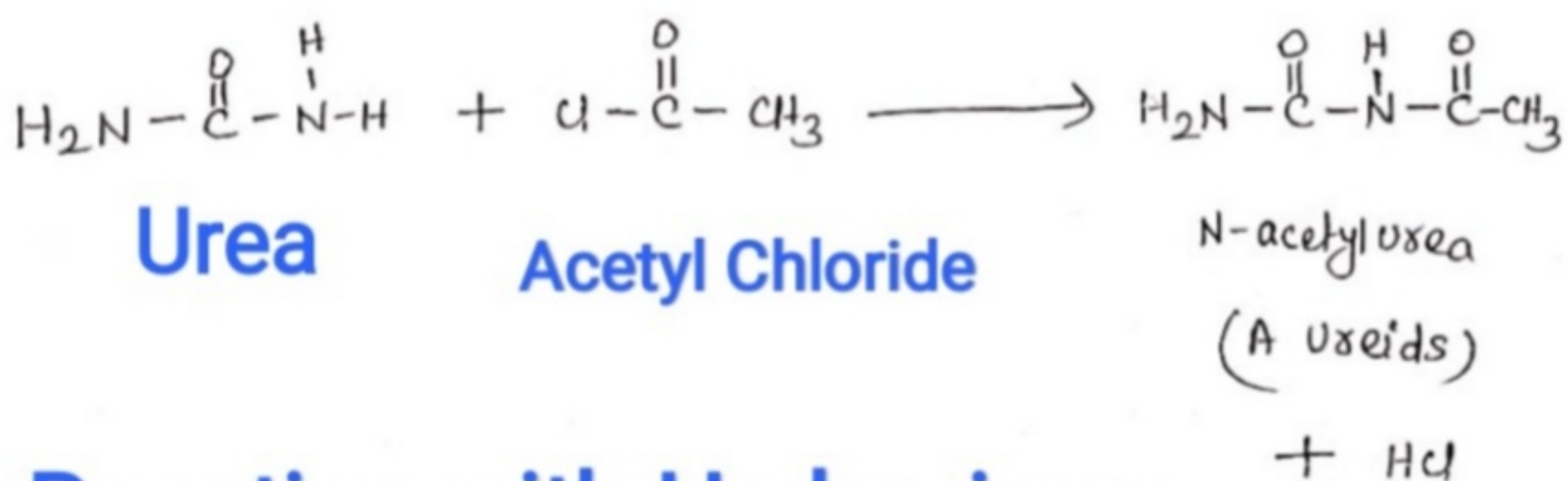
2.



3. Reaction with Thionyl Chloride :-



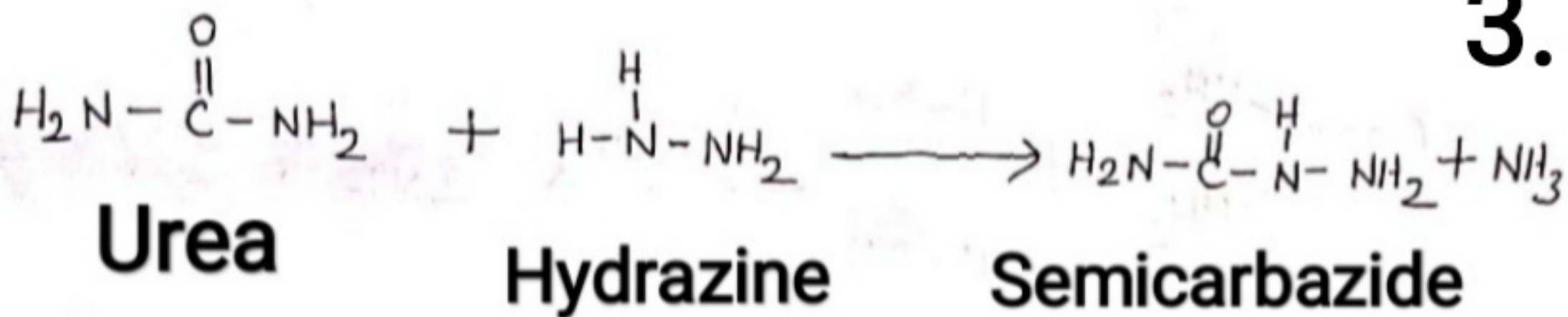
4. Reaction with Acid chloride :-



5. Reaction with Hydrazine :-

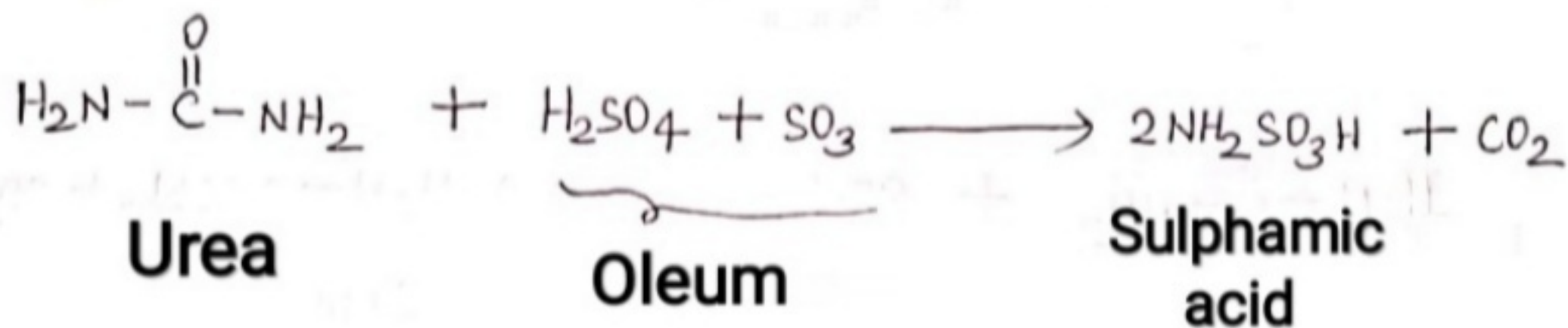
Urea reacts with hydrazine in the presence of aqueous amyl alcohol as solvent at 100°C to yield semicarbazide.

3.



6. Reaction with Fuming sulphuric acid :-

Urea reacts with fuming sulphuric acid to yield sulphamic acid.



Completed
