

# DEGREE-I (HONS.)

1.

04/11/2020 ( Revision )

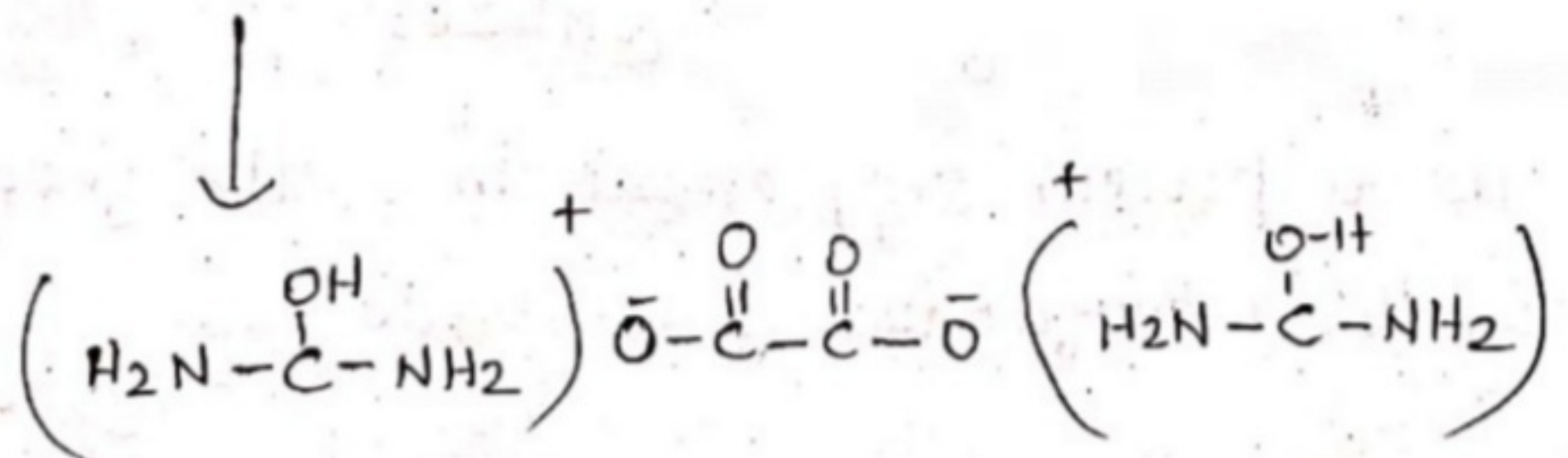
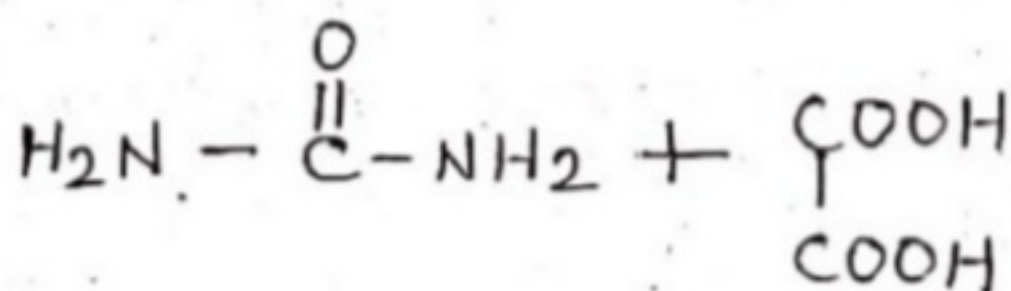
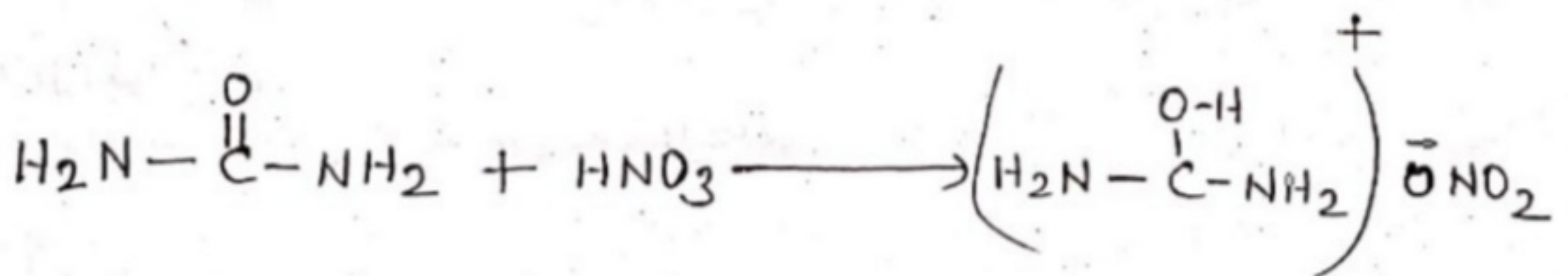
## Topic - Properties & Uses of Urea

### PHYSICAL PROPERTIES

- \* Urea is a non-toxic, colourless, crystalline solid.
- \* Melting point =  $132^{\circ}\text{C}$
- \* It is soluble in water and alcohol but insoluble in non-hydroxylic solvent such as ether, chloroform or benzene.

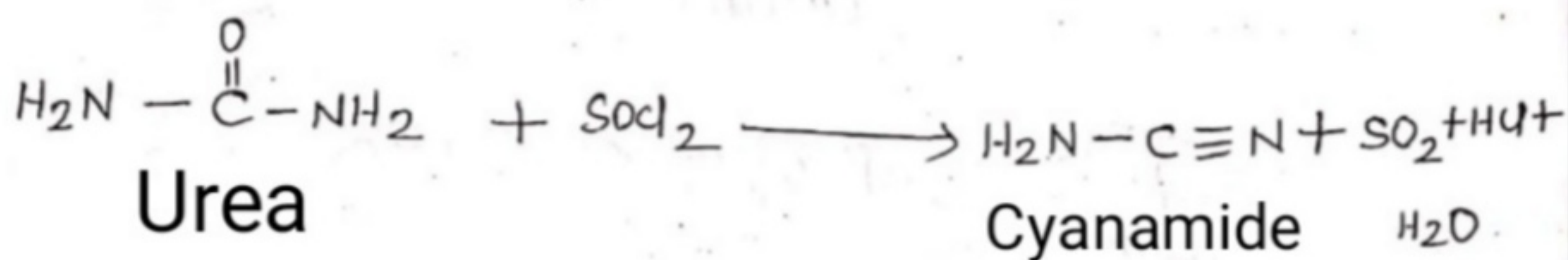
### CHEMICAL PROPERTIES

#### 1. SALT FORMATION

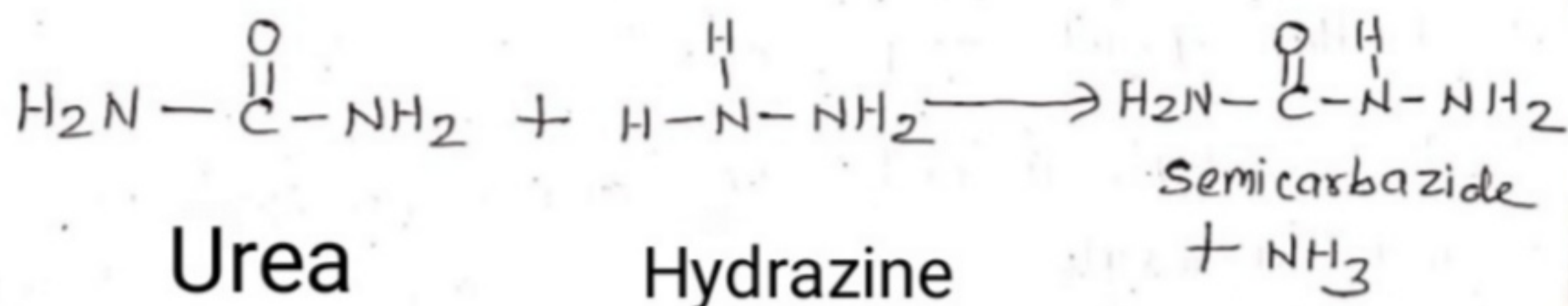


## 2. Reaction with the Thionyl Chloride.

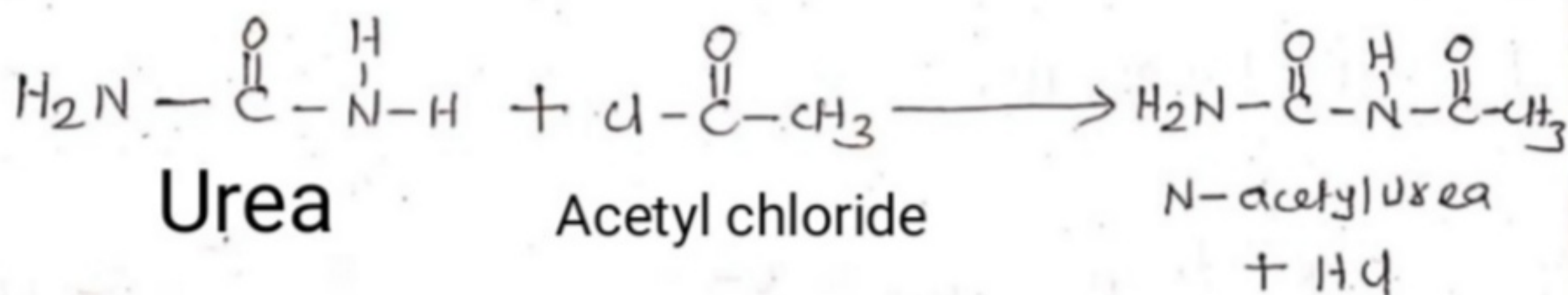
2.



## 3. Reaction with Hydrazine



## 4. Reaction with Acid chloride



## USES OF UREA

Urea is used :-

Properties & Uses  
Of Urea Completed.

1. In agriculture as a fertilizer.
2. As a protein supplement in Cattle feed
3. In the manufacture of barbiturates.