

PROPERTIES AND USES ^{1.}

OF

"AROMATIC AMINES"

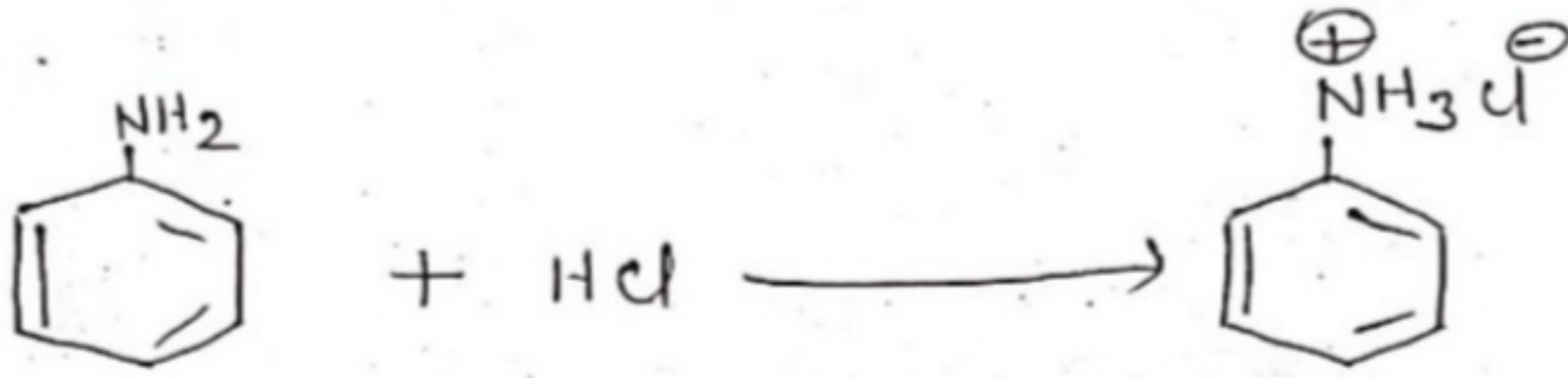
DEGREE-I(HONS.) , 02/11/2020

Revision Notes

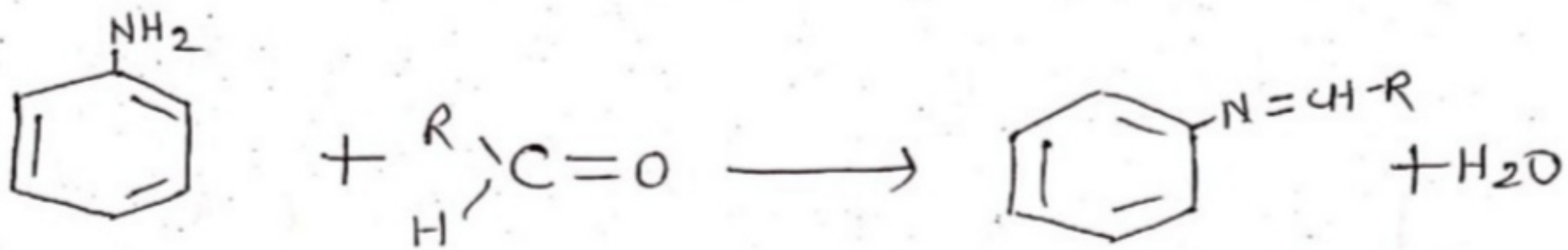
PHYSICAL PROPERTIES

1. Aromatic amines are colourless liquids or solids.
2. Aromatic amines have a characteristic odour which is not pleasant. They turn brown in air owing to oxidation.
3. They have high melting and boiling points compared to analogous alkanes.
4. Sparingly soluble in H_2O .

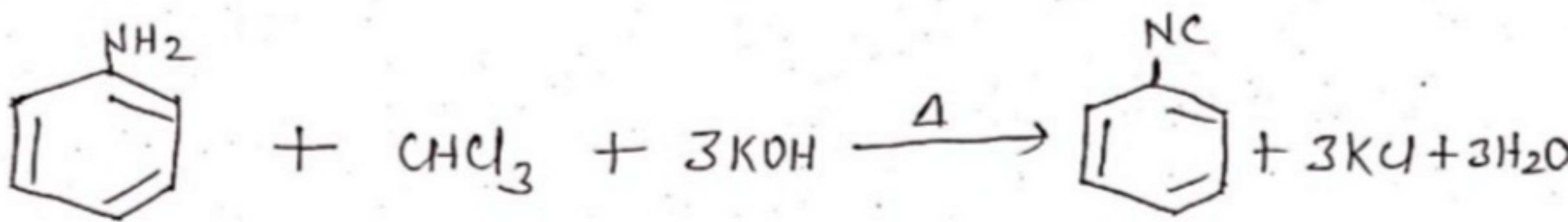
1. Salt Formation



2. Reaction with Aldehyde

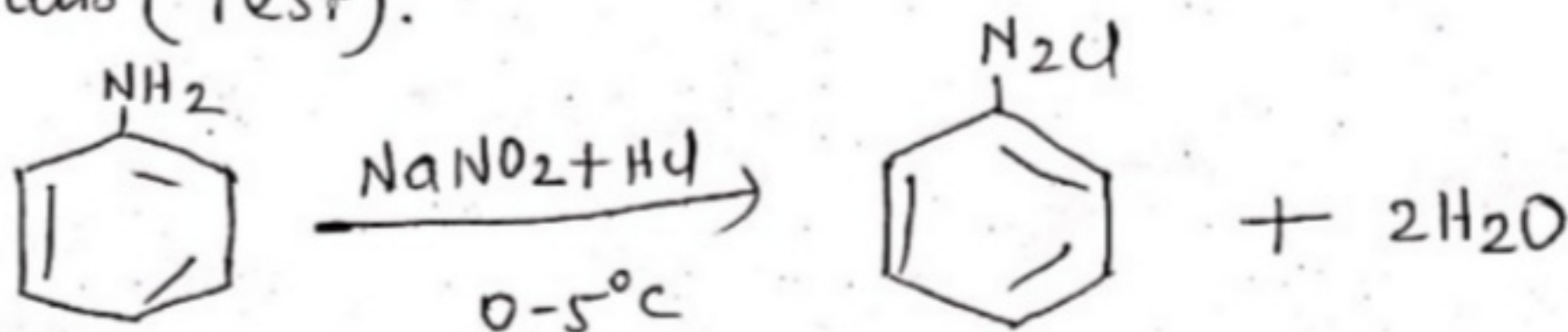


3. Carbyl amine reaction



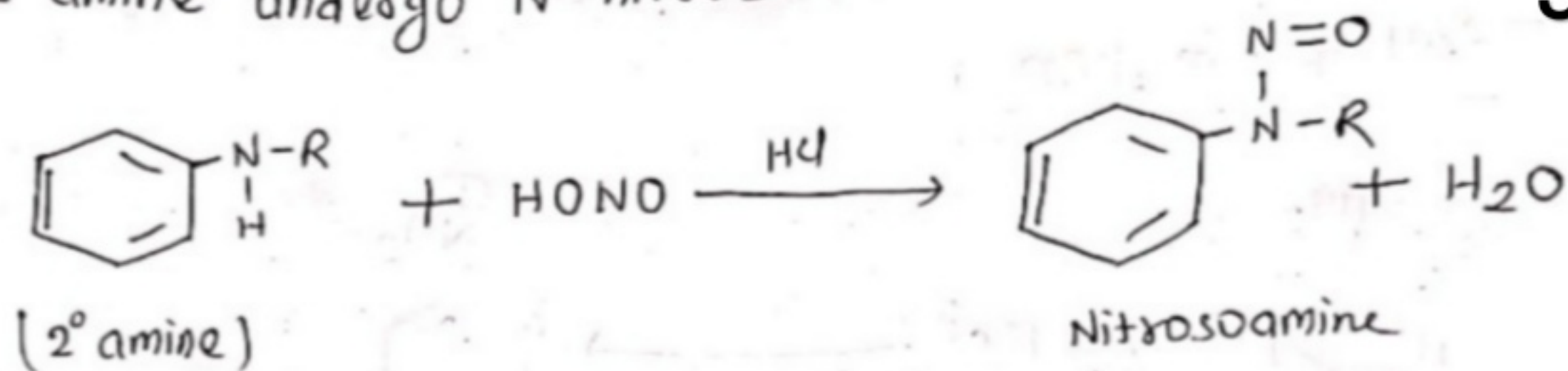
4. Reaction with Nitrous Acid

Aromatic amine undergo diazotization to give diazonium salts (Test).

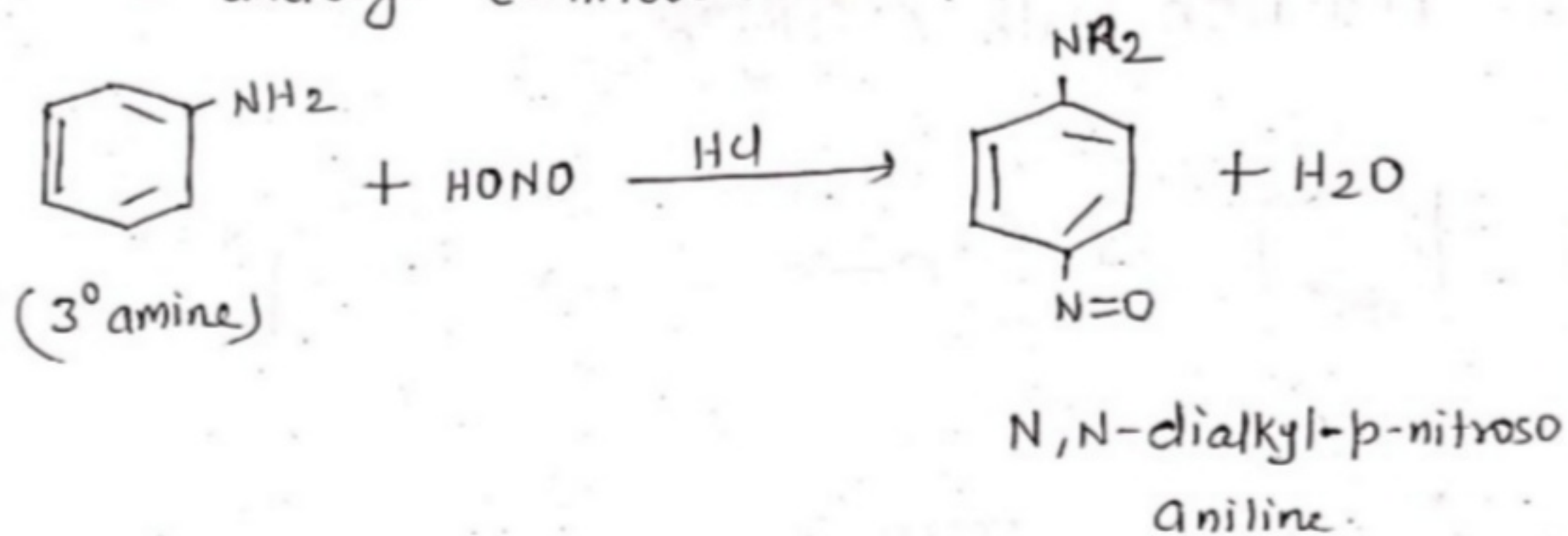


1° amine

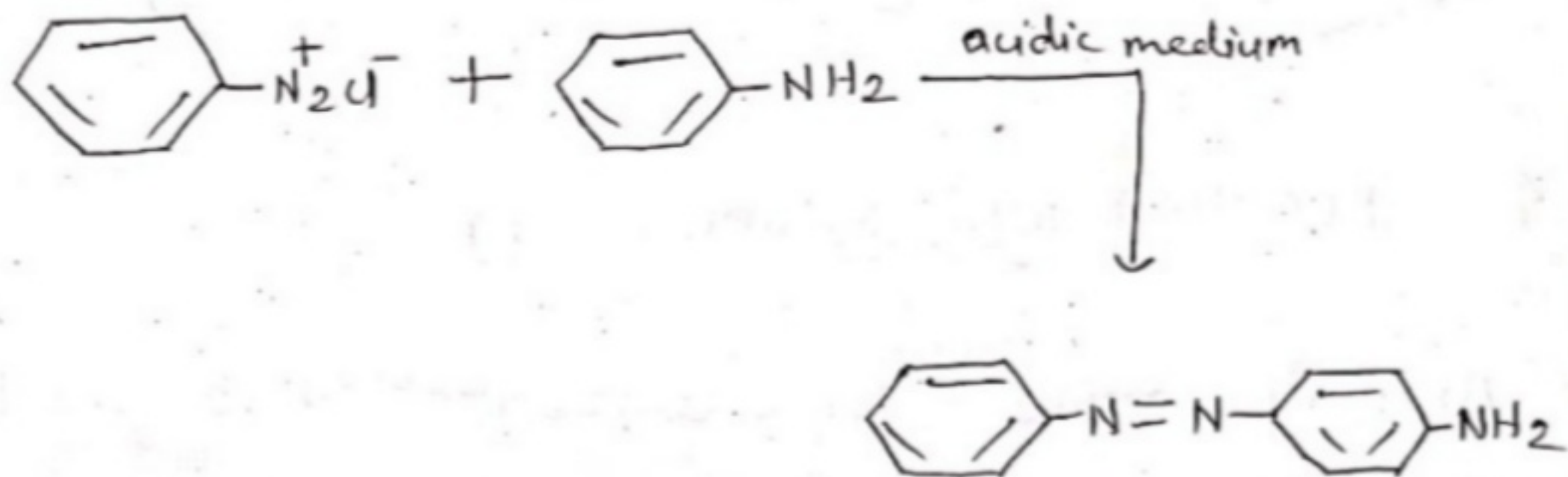
2° amine undergo N-nitrosation.



3° amines undergo C-nitrosation.



5. Diazo-Coupling Reaction



USES OF AROMATIC AMINES

1. For Preparation of dyes.
2. For manufacturer of antioxidant.
3. For making isocyanates required for polyurethane plastic used for insulation.