

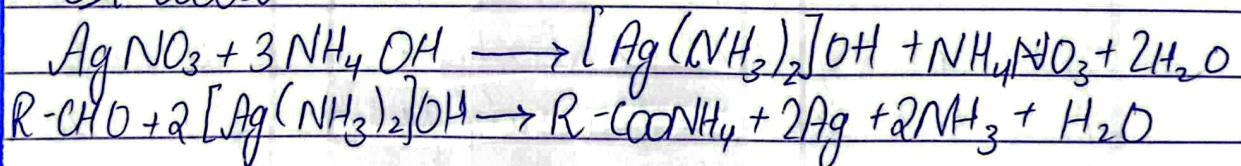
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# Subjective Type

## Question 2:-

### i- Tollen's Test :-

Add Tollen's reagent to an aldehyde solution in a test tube and warm. A silver mirror is formed on the inside of test tube



### ii- Acetaldehyde

It gives positive result

It gives off yellow colour precipitation

### Formaldehyde

It does not give positive result

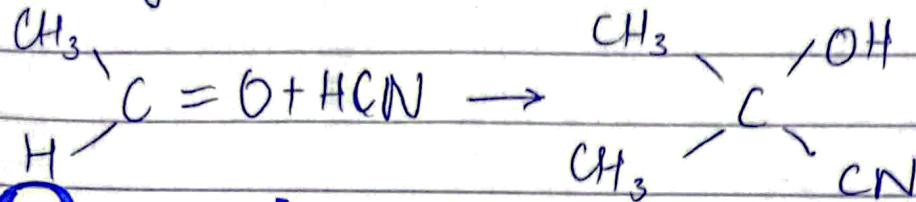
Formaldehyde does not react with it.

### iii- Acetaldehyde with HCN

Hydrogen cyanide adds to aldehydes and ketones to form cyanohydrins the



reaction is carried out by adding slowly a mineral acid to an aqueous solution of sodium cyanide. The acid generates HCN for Sodium cyanide

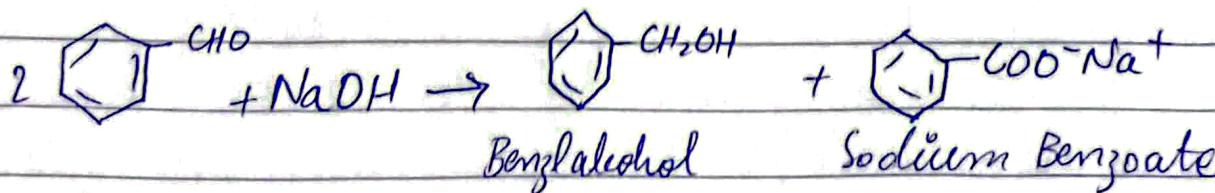
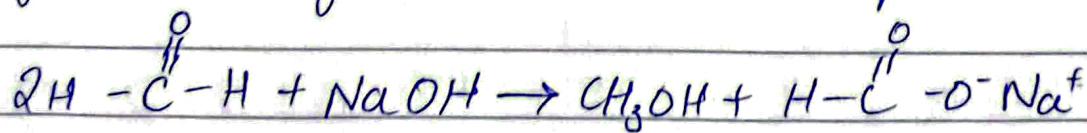


## Question 3:-

### Long Question

#### Cannizzaro's Reaction:-

Aldehydes that have no  $\alpha$ -hydrogen atom undergo Cannizzaro's reaction. It is a disproportionation reaction. Two molecules of aldehyde are involved, one molecule being converted into corresponding alcohol and the other into the acid in the salt form. The reaction is carried out with 50 percent aqueous solution of sodium hydroxide at room temperature.

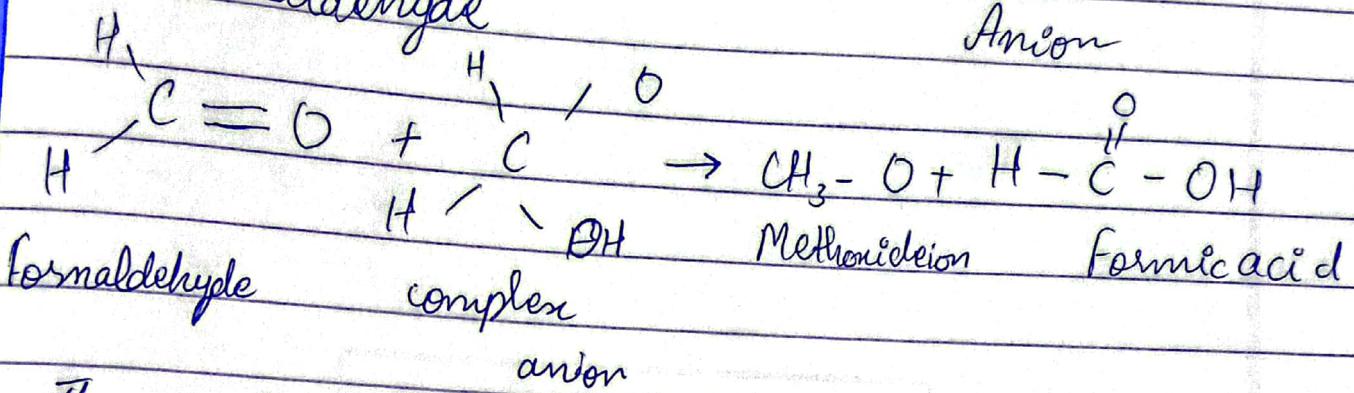


Benzaldehyde

## Mechanism:-



Formaldehyde

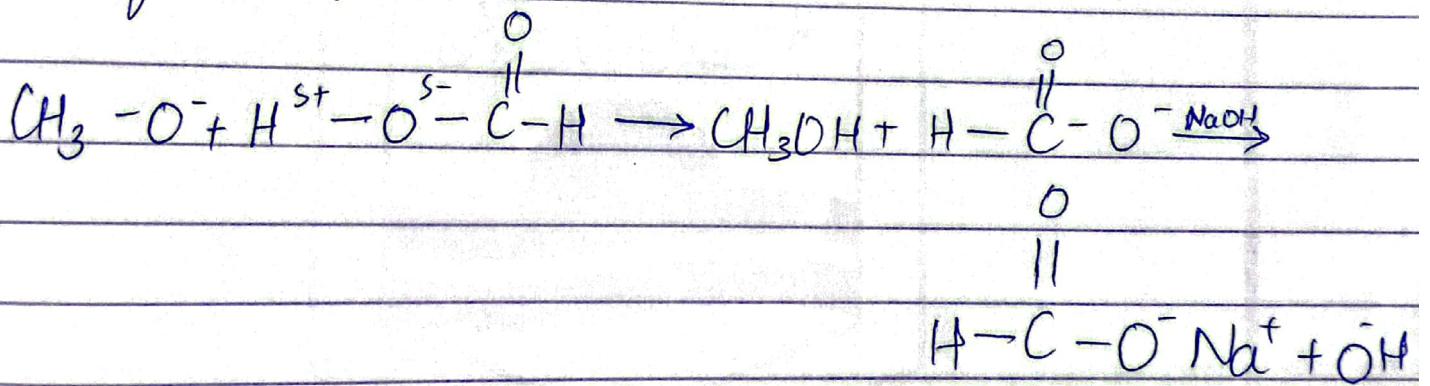


Formaldehyde

complex

anion

The methoxide ion acts as base and abstracts a proton from formic acid to form methanol and formate ion



The formate ion in the presence of alkali gives a salt of the acid