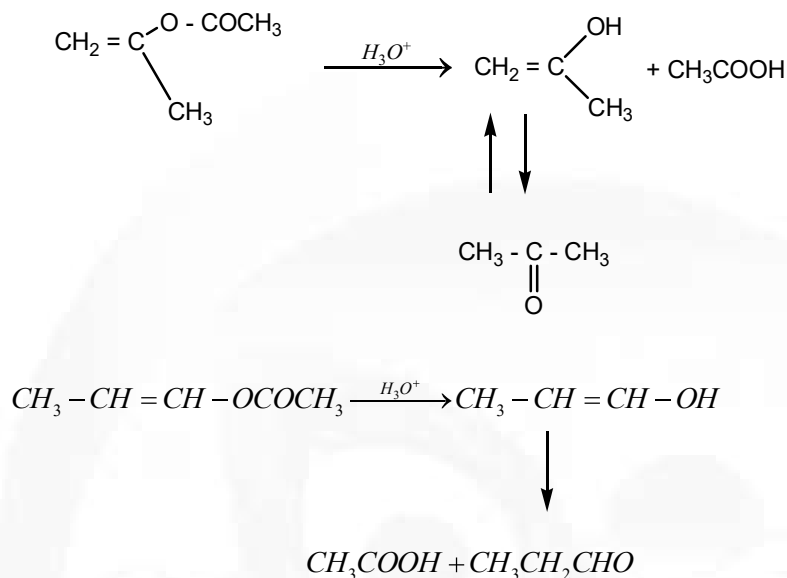


**CHEMISTRY**

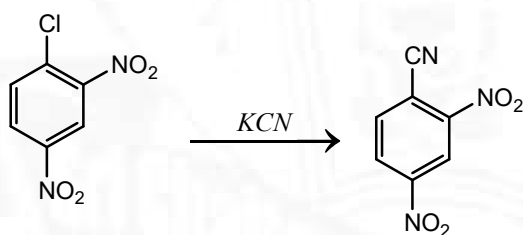
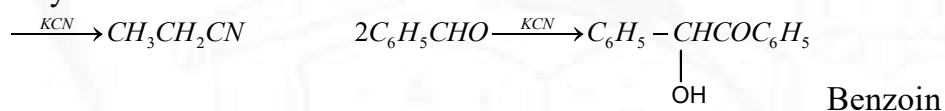
21. Carbohydrates don't give a precipitate with  $\text{NaHSO}_3$ . The sodium bisulphate addition compound of aldehydes and ketones gives back the aldehyde or ketone on hydrolysis. The atom connected to carbonyl carbon is S in  $\text{SO}_3\text{Na}$ .

22.

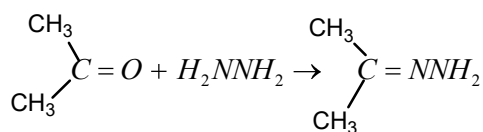
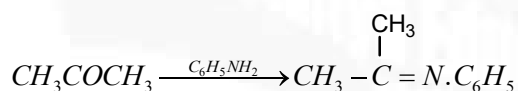


Acetone and propanal can be distinguished with  $\text{I}_2 / \text{NaOH}$ , acetone gives Iodoform but not propanal. Propanal reduces Fehlings solution, but not acetone.

23. Ethyl chloride



24.



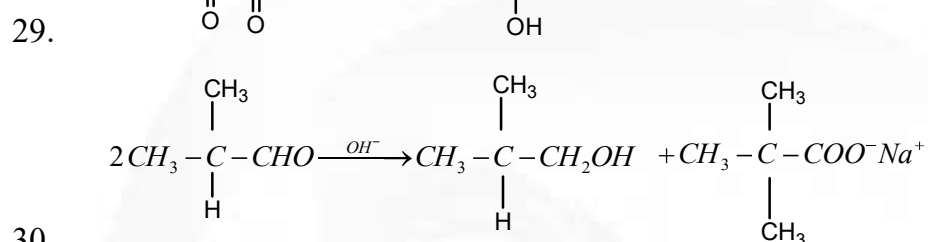
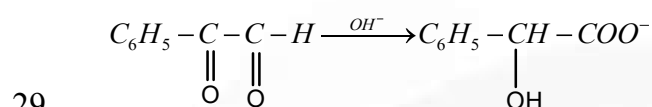
25. Fehlings A –  $\text{CuSO}_4$

Fehlings B – alkali Rochelle salt

26. a, is pcc b is Jones reagent c is M.P.V reduction. All these are reagents for the reaction  $\text{KMnO}_4$  affects hydroxylation of double bond also.

27. Oximes of  $\text{CH}_3\text{CHO}$  and  $\text{CH}_3\text{COC}_2\text{H}_5$  exhibit geometrical isomerism and exist as diastereomers

28. |b| gives a five or seven membered ring



31.

