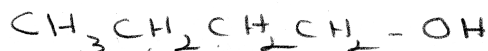


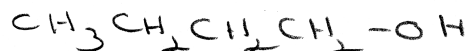
Give the structure of the chief organic product(s) expected from the reaction of butanal.



H_2/Ni



NaBH_4 ; then H^+

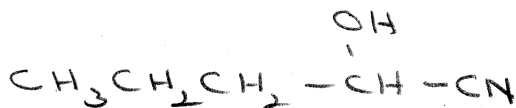


NH_2NH_2 , OH^-

Wolff-Kishner



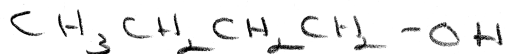
NaCN ; then H^+



CH_3OH , H^+



LiAlH_4 ; then H^+

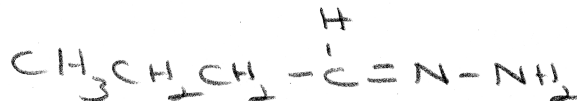


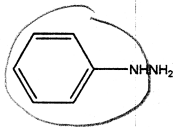
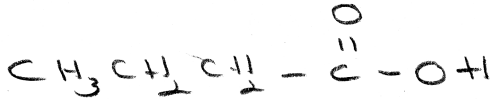
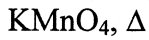
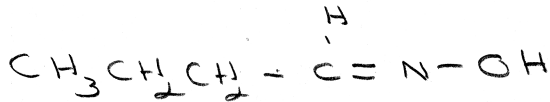
$\text{Zn}(\text{Hg})$, HCl

Clemmensen

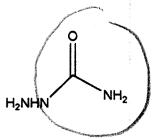
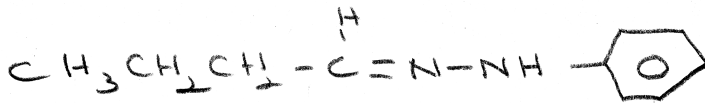


H_2NNH_2

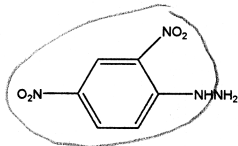
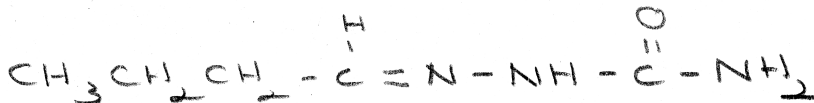




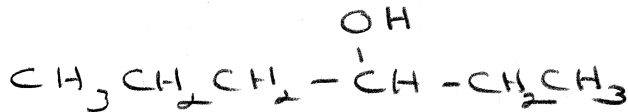
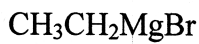
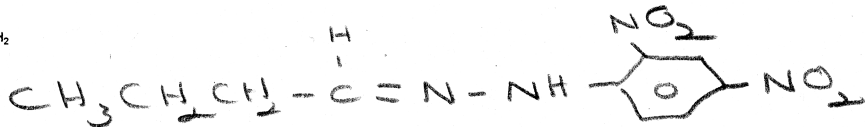
G-



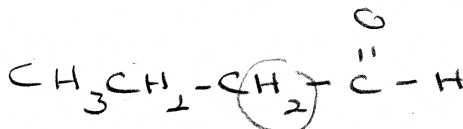
-G



G-



Cannizzaro



$\alpha \text{ H}$

N.R.