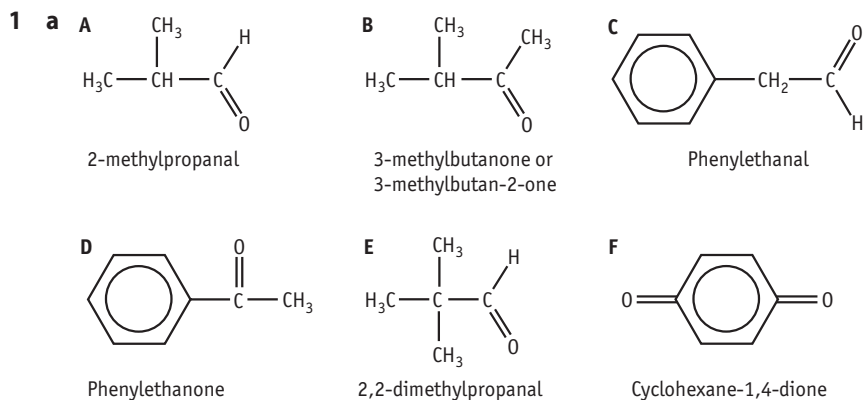


Unit 4

Rings, polymers and analysis

Chapter 2 Carbonyl compounds



b A: aldehyde

B: ketone

C: aldehyde

D: ketone

E: aldehyde

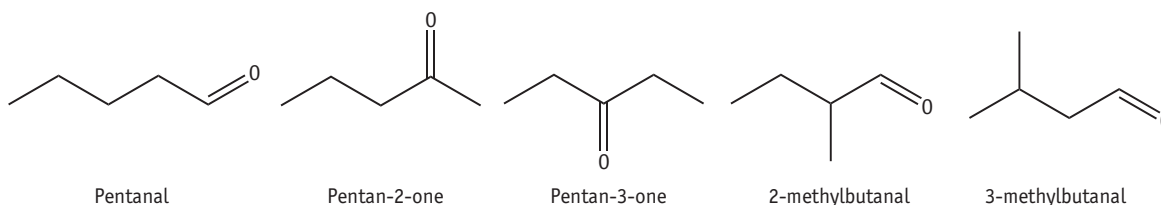
F: ketone

c $C_6H_8O_2$

d C from 2-phenylethanol, $C_6H_5CH_2CH_2OH$

D from 1-phenylethanol, $C_6H_5CH(OH)CH_3$

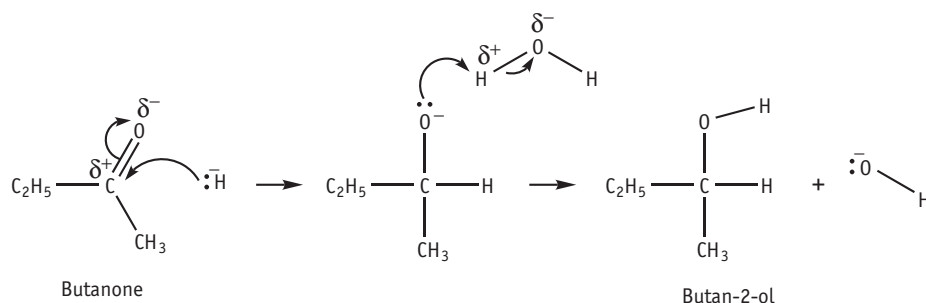
e Any three of the following:



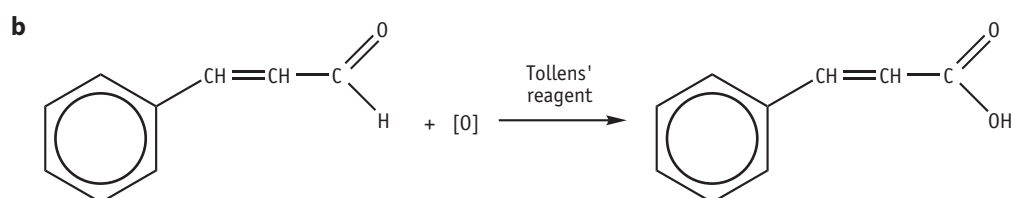
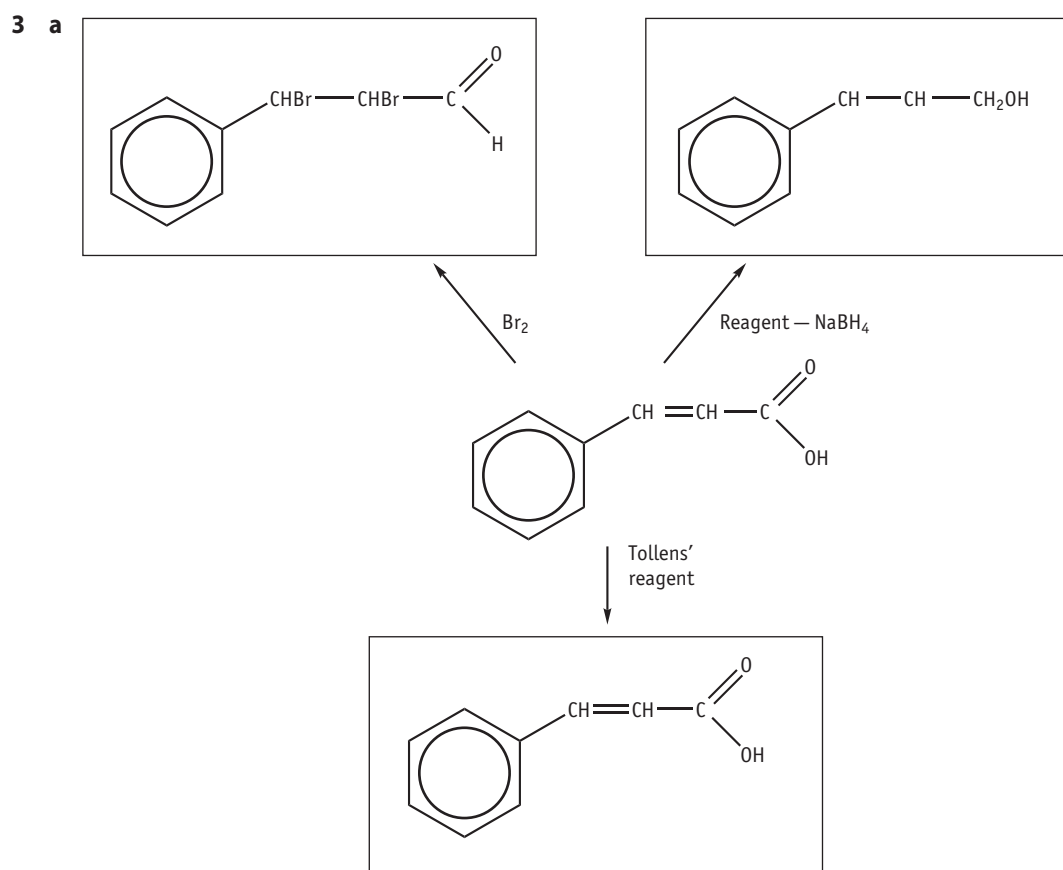
2 Carbonyl compound: butanone, $CH_3COCH_2CH_3$

Reagents and conditions: $NaBH_4$, water as solvent

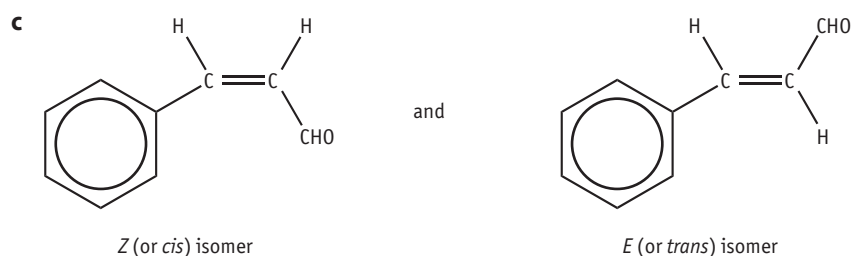
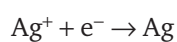
Balanced equation: $CH_3COCH_2CH_3 + 2[H] \rightarrow CH_3CH(OH)CH_2CH_3$



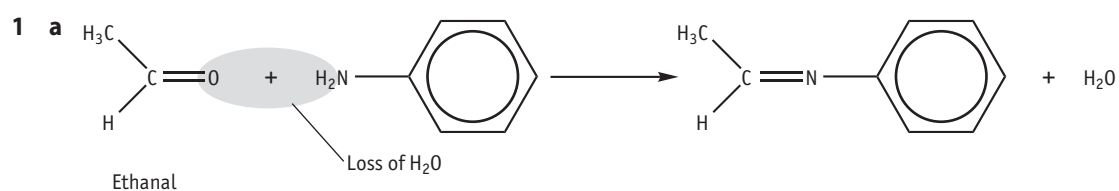
Chapter 2 Carbonyl compounds



In the reaction with Tollens' reagent the Ag^+ ion will be *reduced* to metallic $\text{Ag}(\text{s})$



Stretch and challenge



Chapter 2 Carbonyl compounds

3

