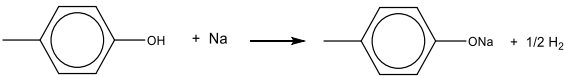
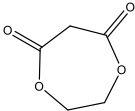
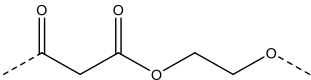


7(a)	M1: (most acidic) benzoic acid 4-methylphenol water (least acidic) phenylmethanol M2: correct link of acidity to weakens O—H / H⁺ more easily lost / anion stabilised / conjugate base stabilised M3 and M4: any two [2] - for benzoic acid: negative inductive effect of C=O / electronegative C=O / two electronegative O / –ve charge delocalised (across two O) / resonance in –COO[–] - for 4-methylphenol: as lone pair on oxygen delocalised into the ring / π system / delocalised system OR p orbital on oxygen overlaps with ring / π system / delocalised system - for phenylmethanol: positive inductive effect of alkyl group / R / CH₃
7(b)	 <chem>Oc1ccccc1.[Na]>>[Na]Oc1ccccc1.[H]</chem>
7(c)(i)	
7(c)(ii)	(reaction 10) addition–elimination / condensation / esterification AND (reaction 11) addition–elimination / condensation (polymerisation) / esterification
7(c)(iii)	 M1: ester linkage shown M2: rest of the structure correct with continuation bonds