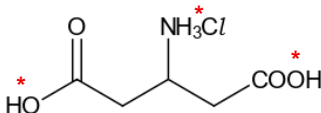
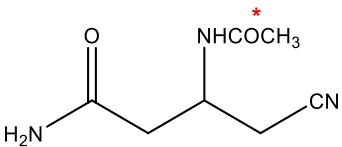
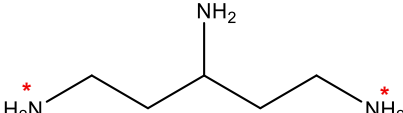


6(a)	$sp = 1$ AND $sp^2 = 1$ AND $sp^3 = 3$												
6(b)(i)	acid-base / neutralisation AND hydrolysis												
6(b)(ii)	reaction 7  reaction 8  reaction 9  any two * [1], any three * [2], any five * [3], all six * [4]												
6(c)(i)	five / 5												
6(c)(ii)	<table border="1"><tr><td>proton environment</td><td>a</td><td>b</td><td>c</td></tr><tr><td>name of splitting pattern</td><td>doublet</td><td>multiplet</td><td>doublet</td></tr><tr><td>chemical shift range, δ / ppm</td><td>2.2–3.0</td><td>3.2–4.0</td><td>2.0–3.0</td></tr></table> any three [1], all six [2]	proton environment	a	b	c	name of splitting pattern	doublet	multiplet	doublet	chemical shift range, δ / ppm	2.2–3.0	3.2–4.0	2.0–3.0
proton environment	a	b	c										
name of splitting pattern	doublet	multiplet	doublet										
chemical shift range, δ / ppm	2.2–3.0	3.2–4.0	2.0–3.0										