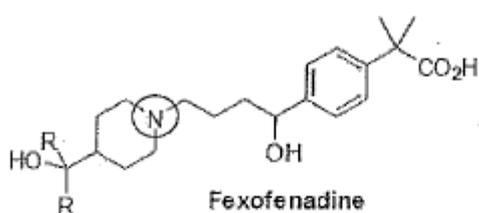
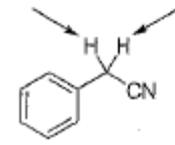
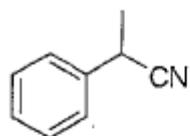


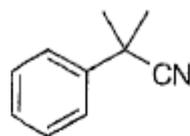
Question 6		Answer	Marks
(a)	i)	 <p style="text-align: center;">Fexofenadine</p>	1
	ii)	$(120.14 - 112.00) / 112.00 = 36.458 / (\text{RMM of fexofenadine})$ $\therefore \text{RMM of fexofenadine} = 501.6$	1
	iii)	$\text{RMM of structure} = (2 \times M_r(\text{R})) + 347.4$ $\therefore 2 \times M_r(\text{R}) = 501.6 - 347.4 = 154.2$ $M_r(\text{R}) = 77.1$ <p>R = C₆H₅ (accept 'phenyl group')</p>	1
(b)			1

(c)

A

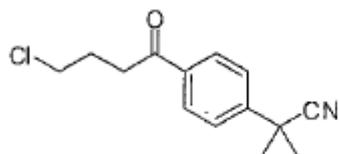


B

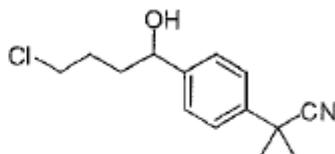


7

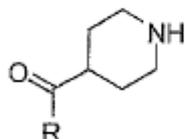
C



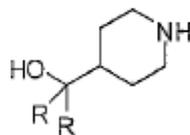
D



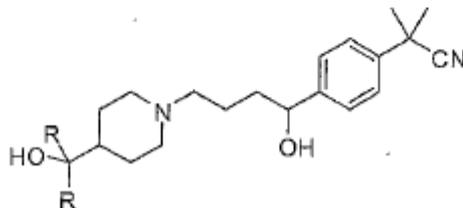
E



F



G



Award 1 mark for each correct structure

Award 1 additional mark if all structures in parts c) are given correctly.

1