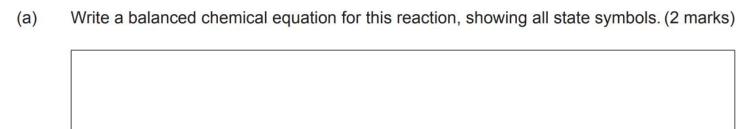
Question 33 (5 marks)

Citric acid, $C_6H_8O_7(aq)$, is a triprotic acid which reacts readily with solid sodium hydroxide, NaOH(s).



The structure of $C_6H_8O_7$ is shown below.

H ⁺ removed	Structure
First	C — CH ₂ — C — CH ₂ — C
Second	$C - CH_2 - C - CH_2 - C$
Third	C — CH ₂ — C — CH ₂ — C