

(Carboxylic acids (properties, uses, reactions))

Q1. a). (2020)

HCOOH

propanoic acid

Q1. b). (2020)

incomplete / partial ionisation

(because) reaction is reversible

Q1. c). (2020)

mass (of flask and contents)
decreases

(because) carbon dioxide is
produced

(and) carbon dioxide escapes
(from the flask)

Q1. d). (2020)

(0.01 mol/dm³) methanoic acid
has a lower pH

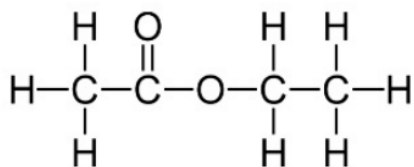
(so 0.01 mol/dm³) methanoic
acid has a higher concentration
of hydrogen ions

(therefore) more collisions per
unit time

Q2.(2020)

ethyl ethanoate

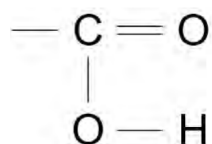
Q3. (2020)



Q4. (2023)

an oxidising agent

Q5. (2023)



Q6. (2023)

