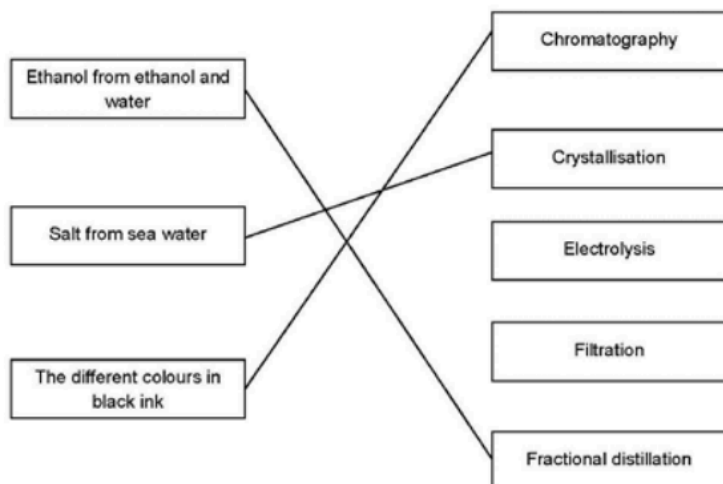


(States of matter (particle model, changes of state))

Q1. (2018)



Q2. (2018)

include a (filter) funnel

Q3. (2018)

evaporate

condense

Q4.a) (2019)

B

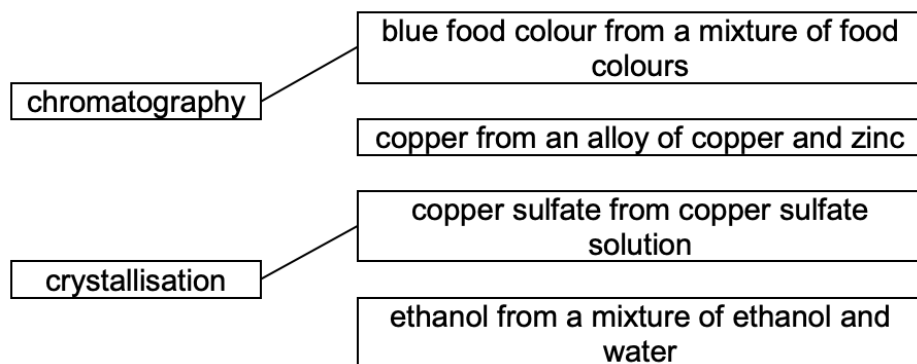
Q4.b) (2019)

D

Q4.c) (2019)

E

Q4.d) (2019)



additional line from a box negates the mark for that box

Q5. (2019)

(filter) funnel containing filter paper

suitable vessel for collecting filtrate

sand **and** water labelled in correct place

Q6.a) (2019)

100 °C

Q6.b) (2019)

any **four** from:

- solution is heated
- water evaporates
- the vapour cools in the condenser
- the vapour condenses
or
the vapour turns to a liquid
- (pure) water collects in the beaker

Q7.a) (2019)

S

Q7. b)(2019)

a gas escapes

Q7. c)(2019)

from 0.47 (g) to 0.86 (g)

Q7. d)(2019)

$$\frac{0.84+0.79+0.86}{3}$$

$$= 0.83 \text{ (g)}$$

Q8.a) (2022)

A

Q8.b) (2022)

B

Q9.(2022)

filtration

Q10.a) (2022)

C

Q10.b) (2022)

increases

Q10.c) (2022)

**heat (the solution) until
crystallisation point is reached**

**leave the solution (to cool /
crystallise)**

Q11.(2023)

the atoms gain energy and their
arrangement becomes less
ordered

Q12.a) (2024)

D

Q12.b) (2024)

C

Q13.a)(2024)

B

Q13.b)(2024)

A