

SMART EXAM RESOURCES
SUBJECT: CHEMISTRY
TOPIC: ELECTROCHEMISTRY
SET-1-QP-MS

ELECTROLYSIS BASIC QUESTIONS

1

State **two** properties of graphite (carbon) which make it suitable for use as an electrode.

1

2

[2]

MARK SCHEME:

M1 inert (1)	2
M2 conducts electricity (1)	

2

This question is about electrolysis.

(a) State the meaning of the term *electrolyte*.

.....
..... [2]

MARK SCHEME:

Question	Answer	Marks
(a)	M1 ionic compound AND either molten or aqueous(or both)(1) M2 conducts electricity / undergoes electrolysis(1)	2

3 This question is about electricity and chemical reactions.

(a) Aqueous copper(II) sulfate is an electrolyte.

The electrolysis of aqueous copper(II) sulfate using inert electrodes forms:

- copper at the cathode
- oxygen at the anode.

(i) State what is meant by the term electrolyte.

.....

..... [2]

MARK SCHEME:

Question	Answer	Marks
(a)(i)	M1 ionic compound M2 molten and / or aqueous	2

4 Molten potassium chloride undergoes electrolysis.

(i) State what is meant by the term *electrolysis*.

.....
..... [2]

MARK SCHEME:

(i)	breakdown by (the passage of) electricity (1) of an ionic compound in molten or aqueous (state) (1)	2
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5

a State **two** reasons why carbon (graphite) is suitable to use as an electrode.

1

2

[2]

b Name the particle responsible for the conduction of electricity in the metal wires used in a circuit.

..... [1]

MARK SCHEME:

Question	Answer	Marks
a	M1 inert (1) M2 good conductor of electricity (1)	2
b	electron	1