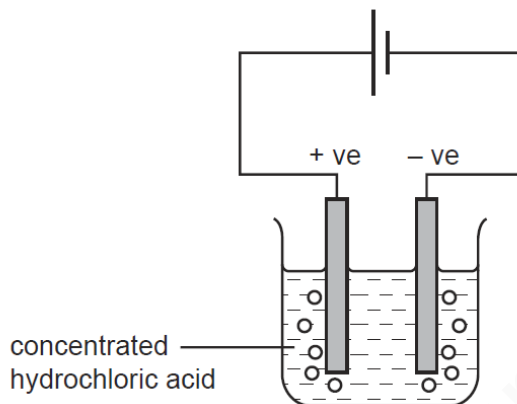


NO: **ELECTROLYSIS OF CONC HCl-SET-1**

1 The diagram shows that two gases are formed when concentrated hydrochloric acid is electrolysed between inert electrodes.



Which line correctly describes the colours of the gases at the electrodes?

	anode (+ve)	cathode (-ve)
<b>A</b>	colourless	colourless
<b>B</b>	colourless	yellow-green
<b>C</b>	yellow-green	colourless
<b>D</b>	yellow-green	yellow-green

Ms-1 C

2 Electricity from a power station passes through overhead cables to a substation and then to a school where it is used to electrolyse concentrated hydrochloric acid using inert electrodes.

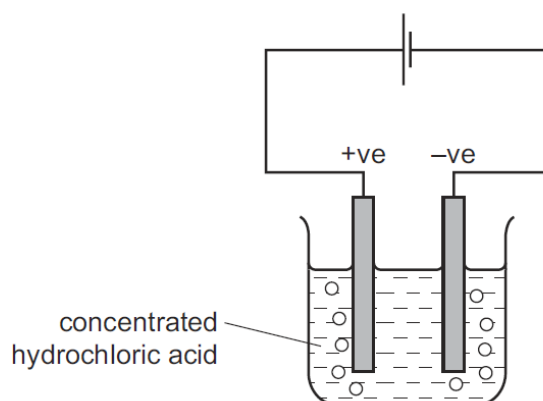
Which substances are used for the overhead cables and for the electrodes?

	overhead cables	electrodes
<b>A</b>	aluminium	copper
<b>B</b>	aluminium	platinum
<b>C</b>	copper	platinum
<b>D</b>	platinum	aluminium

Ms-2 B

3

The diagram shows that two gases are formed when concentrated hydrochloric acid is electrolysed using inert electrodes.



Which row correctly describes the colours of the gases at the electrodes?

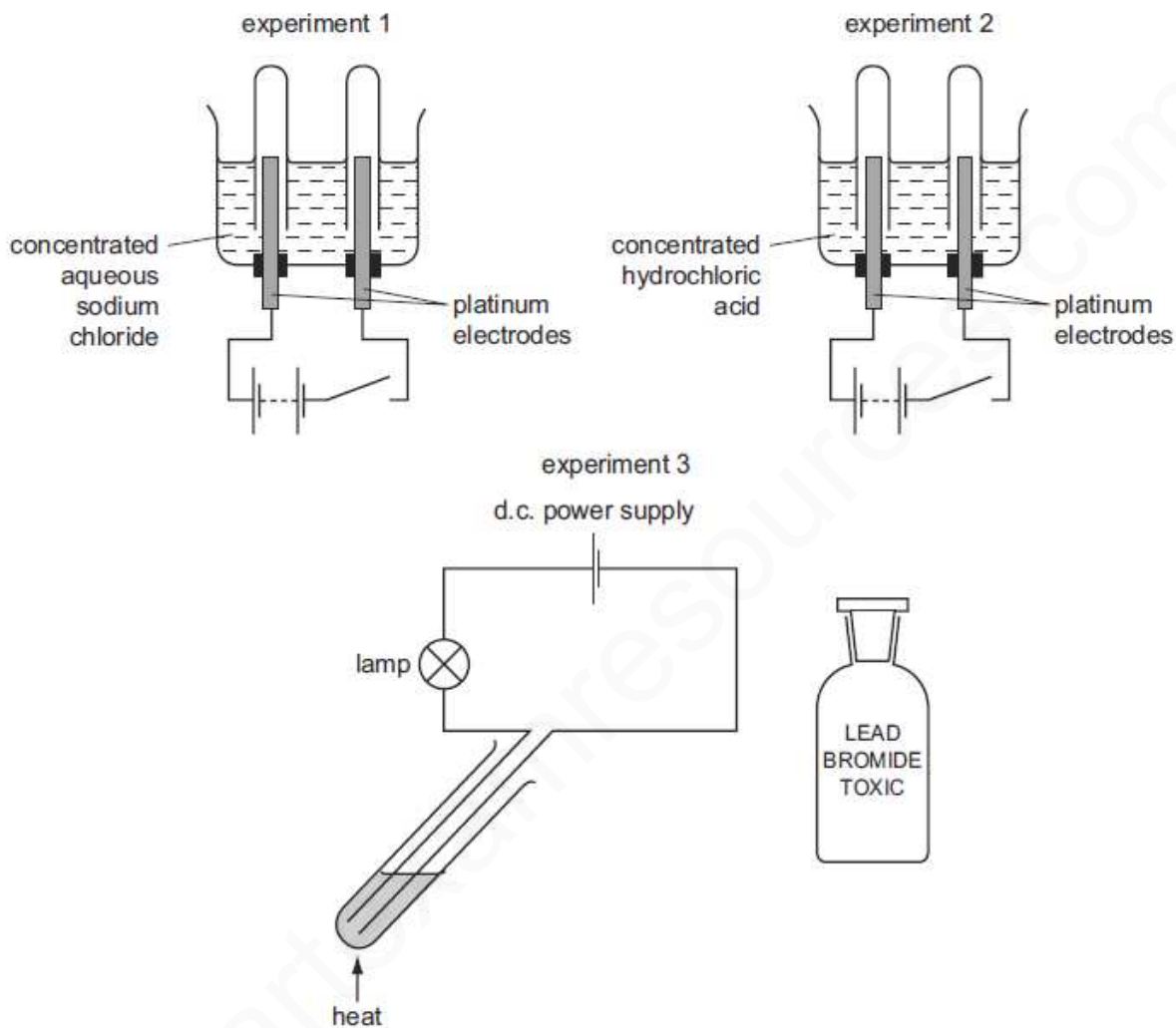
	anode (+ve)	cathode (-ve)
<b>A</b>	colourless	colourless
<b>B</b>	colourless	yellow-green
<b>C</b>	yellow-green	colourless
<b>D</b>	yellow-green	yellow-green

Ms-3

C

4

Concentrated aqueous sodium chloride, concentrated hydrochloric acid and molten lead bromide were separately electrolysed in experiments 1, 2 and 3.



Which statement about the electrode products is correct?

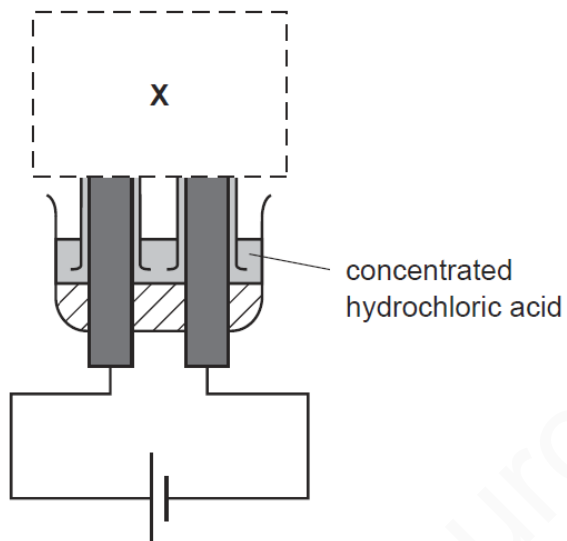
- A** Gases were given off at the anode in experiments 2 and 3 only.
- B** Gases were given off at the cathode in experiments 1 and 2 only.
- C** Metals were formed at the anode in experiments 1 and 3 only.
- D** Metals were formed at the cathode in experiments 1 and 3 only.

Ms-4

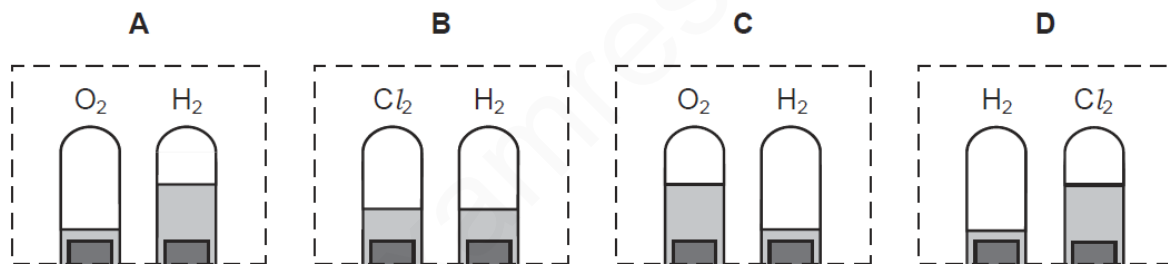
B

5

The diagram shown is not complete.



What should be shown at **X** when the solution has been electrolysed for some time?



Ms-5

B