

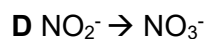
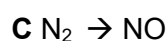
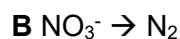
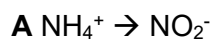
A Level Chemistry B (Salters)
H433/01 Fundamentals of chemistry

Elements from the Sea

Question Set 3

Multiple Choice Questions

1 Which process is **not** oxidation?



Your answer

[1]

2 Chlorine reacts with bromide ions in sea water, producing bromine.

Which statement about this process is **not** correct?

A Bromide ions are oxidised.

B The chlorine is obtained from sea water.

C Bromine forms because it is more reactive than chlorine.

D Chlorine molecules are reduced.

Your answer

[1]

3 Which formula has the correct systematic name?

	Formula	Systematic name
A	Na_2SO_3	sodium sulfate(VI)
B	NaClO_3	sodium chlorate(III)
C	Cu_2S	copper(I) sulfide
D	$\text{Pb}(\text{NO}_3)_2$	lead(II) nitrate(III)

Your answer

[1]

4 Which row correctly shows the main products in electrolysis using graphite electrodes?

	Electrolyte	Product at the anode	Product at the cathode
A	$\text{MgBr}_2(\text{l})$	bromine	magnesium
B	$\text{CuSO}_4(\text{aq})$	oxygen	hydrogen
C	$\text{NaCl}(\text{aq})$	chlorine	sodium
D	$\text{PbS}(\text{l})$	hydrogen sulfide	lead

Your answer

[1]

5 A solution of salt **X** gives a green precipitate with sodium hydroxide solution.

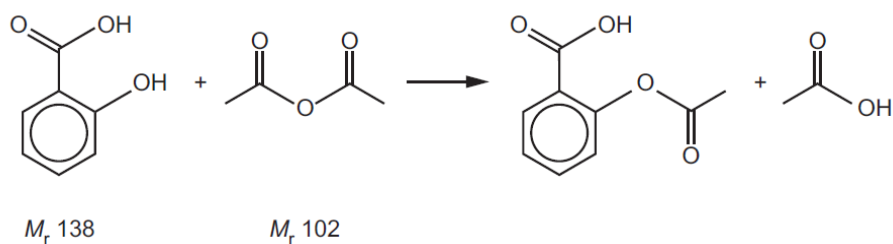
What is **X**?

- A Iron(II) chloride
- B Iron(III) sulfate
- C Barium chloride
- D Barium sulfate

Your answer

[1]

6 Aspirin is synthesised by the reaction below.



What is the atom economy of this reaction for producing aspirin?

- A 25%
- B 43%
- C 50%
- D 75%

Your answer

[1]

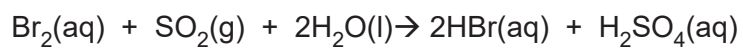
7 Which row of the table is correct?

	Formula	Systematic name
A	NaClO	sodium chlorate(I)
B	CuS	copper(I) sulfide
C	NaIO ₃	sodium iodate(III)
D	HNO ₂	nitrous acid

Your answer

[1]

- 8** A reaction that occurs during the production of bromine in some industrial plants is shown below.



Which statement about this reaction is correct?

- A** Bromine is oxidised.
- B** Sulfur ends in oxidation state +4.
- C** The mixture becomes less acidic during the reaction.
- D** Bromide ions are formed.

Your answer

[1]

Total Marks for Question Set 3: 8

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