

## Questions

Q1.

Some questions must be answered with a cross in a box (  ). If you change your mind about an answer, put a line through the box (  ) and then mark your new answer with a cross (  ).

This question is about gases.

Some damp litmus paper is placed in a gas.

The litmus paper is bleached.

Which gas bleaches damp litmus paper?

- A carbon dioxide
- B chlorine
- C hydrogen
- D oxygen

(1)

(Total for question = 1 mark)

Q2.

Some questions must be answered with a cross in a box (  ). If you change your mind about an answer, put a line through the box (  ) and then mark your new answer with a cross (  ).

This question is about elements in group 7, the halogens.

Which halogen is a green gas at room temperature and pressure?

- A bromine
- B chlorine
- C fluorine
- D iodine

(1)

(Total for question = 1 mark)

## Edexcel Chemistry GCSE - Periodic Table MCQ

Q3.

Some questions must be answered with a cross in a box (  ). If you change your mind about an answer, put a line through the box (  ) and then mark your new answer with a cross (  ).

This question is about gases.

When sodium is added to water, hydrogen gas is produced.

Which observation shows that a gas has been produced?

- A a white precipitate forms
- B effervescence is seen
- C the sodium sinks in the water
- D the water changes to a pink colour

(1)

(Total for question = 1 mark)

Q4.

Lithium, sodium and potassium are reactive metals in group 1 of the periodic table.

In an experiment equal-sized pieces of lithium, sodium and potassium are added to separate samples of water.

A flame is produced only with potassium because potassium

- A is the softest metal
- B has the lowest melting point
- C is the most reactive
- D is the only flammable metal

(1)

(Total for question = 1 mark)

Q5.

Which of the following rows gives the colours of the group 7 elements chlorine and bromine at room temperature?

(1)

|                            | chlorine     | bromine   |
|----------------------------|--------------|-----------|
| <input type="checkbox"/> A | red-brown    | purple    |
| <input type="checkbox"/> B | yellow-green | grey      |
| <input type="checkbox"/> C | yellow-green | red-brown |
| <input type="checkbox"/> D | grey         | red-brown |

(Total for question = 1 mark)

Q6.

Answer the question with a cross in the box you think is correct . If you change your mind about an answer, put a line through the box  and then mark your new answer with a cross .

This question is about some of the elements in group 7 of the periodic table.

Which row in the table correctly shows the colours and physical states of the elements at room temperature?

(1)

|                            |                           |                           |
|----------------------------|---------------------------|---------------------------|
| <input type="checkbox"/> A | iodine: purple gas        | bromine: yellow liquid    |
| <input type="checkbox"/> B | chlorine: pale green gas  | iodine: brown solid       |
| <input type="checkbox"/> C | bromine: red-brown liquid | chlorine: yellow liquid   |
| <input type="checkbox"/> D | iodine: dark grey solid   | bromine: red-brown liquid |

(Total for question = 1 mark)

Q7.

Figure 2 shows the melting and boiling points of bromine and iodine.

| element | melting point in °C | boiling point in °C |
|---------|---------------------|---------------------|
| bromine | -7                  | 59                  |
| iodine  | 114                 | 184                 |

Figure 2

Using the information in Figure 2, which row shows the physical states of these elements at 50 °C?

(1)

|                            | bromine | iodine |
|----------------------------|---------|--------|
| <input type="checkbox"/> A | liquid  | gas    |
| <input type="checkbox"/> B | solid   | liquid |
| <input type="checkbox"/> C | gas     | solid  |
| <input type="checkbox"/> D | liquid  | solid  |

(Total for question = 1 mark)

Q8.

Answer the question with a cross in the box you think is correct . If you change your mind about an answer, put a line through the box  and then mark your new answer with a cross .

What are the elements in group 1 of the periodic table called?

(1)

- A alkali metals
- B fullerenes
- C halogens
- D noble gases

(Total for question = 1 mark)

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Q9.

Answer the question with a cross in the box you think is correct . If you change your mind about an answer, put a line through the box  and then mark your new answer with a cross .

This question is about potassium and zinc.

Which of the following temperatures is most likely to be the melting point of potassium?

(1)

- A -63 °C
- B 6.3 °C
- C 63 °C
- D 630 °C

(Total for question = 1 mark)

Mark Scheme

Q1.

| Question number | Answer                                                                                                                 | Mark                       |
|-----------------|------------------------------------------------------------------------------------------------------------------------|----------------------------|
|                 | <b>B</b> chlorine is the only correct answer.<br><b>A, C and D</b> are incorrect because only chlorine bleaches litmus | <b>(1)</b><br><b>AO1 1</b> |

Q2.

| Question number | Answer                                                                                                         | Mark                       |
|-----------------|----------------------------------------------------------------------------------------------------------------|----------------------------|
|                 | <b>B</b> chlorine is the only correct answer<br><b>A, C and D</b> are incorrect because only chlorine is green | <b>(1)</b><br><b>AO1 1</b> |

Q3.

| Question number | Answer                                                                                                                                 | Mark                       |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
|                 | <b>B</b> effervescence is seen is the only correct answer.<br><b>A, C and D</b> are incorrect as they are not linked to gas production | <b>(1)</b><br><b>AO1 2</b> |

Q4.

| Question Number | Answer                                                                                                                                                                                                                                 | Mark                        |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
|                 | <b>C</b> is the most reactive<br><b>The only correct answer is C</b><br><i>A is not correct because this is irrelevant</i><br><i>B is not correct because this is irrelevant</i><br><i>D is not correct because this is irrelevant</i> | <b>(1)</b><br><b>AO 2 1</b> |

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Q5.

| Question number | Answer                                                                                                                                                                                                                                                                         | Mark       |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
|                 | <p><b>C</b> yellow-green red-brown is the only correct answer</p> <p><b>A</b> gives the colours for iodine vapour and chlorine gas<br/> <b>B</b> gives the colours for solid iodine and iodine vapour<br/> <b>D</b> gives the colours for bromine liquid and iodine vapour</p> | <b>(1)</b> |

Q6.

| Question number | Answer                                                                                                                                                                                                        | Mark                                |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
|                 | <p><b>D</b> iodine: dark-grey solid bromine: red-brown liquid<br/>                     Is the only correct answer</p> <p><b>A, B</b> and <b>C</b> all contain at least one incorrect piece of information</p> | <p><b>(1)</b></p> <p><b>AO1</b></p> |

Q7.

| Question number | Answer                                                                                                                                                           | Mark       |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
|                 | <p><b>D</b> liquid solid is the only correct answer</p> <p><b>A, B</b> and <b>C</b> are incorrect because bromine is a liquid and iodine is a solid at 50 °C</p> | <b>(1)</b> |

Q8.

| Question number | Answer                                                                                                                                                                                                                                                                             | Mark       |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
|                 | <p><b>A</b> alkali metals</p> <p><b>A</b> is the only correct answer.</p> <p><b>B</b> is incorrect because fullerenes are not a group in the periodic table<br/> <b>C</b> is incorrect because halogens are group 7<br/> <b>D</b> is incorrect because noble gases are group 0</p> | <b>(1)</b> |

Q9.

| Question number | Answer                                                                                                                                                                                                   | Mark                     |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
|                 | <b>C</b> 63 °C Is the only answer.<br><b>A</b> would be a gas at room temperature<br><b>B</b> would be a liquid at room temperature<br><b>D</b> alkali metals have low melting points – this is too high | <b>(1)</b><br><b>AO1</b> |