

O Level Pure Chemistry MCQs

Periodic Table Test 2.0

Q1

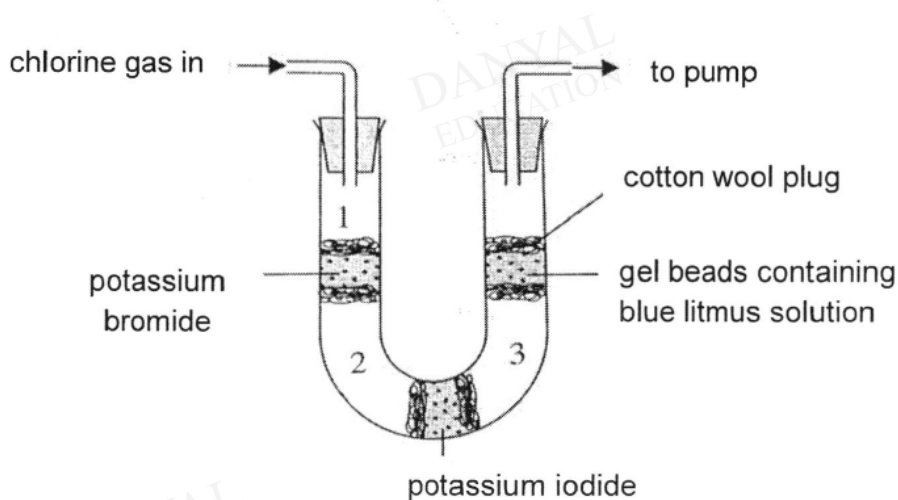
A Group I metal, francium is below caesium in the Periodic Table.

What is a likely property of francium?

- A It does not conduct electricity.
- B It has a higher density than iron.
- C It is more reactive than the rest of the Group I metals in the Periodic Table.
- D It has the highest melting point than the rest of the Group I metals in the Periodic Table.

Q2

Gaseous chlorine was passed through the following apparatus. The apparatus was continuously heated and the observations were recorded below.



Which of the following observations would be made at regions 1, 2 and 3?

	region 1	region 2	region 3
A	red-brown gas	black solid	violet gas
B	red-brown gas	violet gas	black solid
C	yellow-green gas	red-brown gas	violet gas
D	yellow-green gas	violet gas	brown gas

Q3

An element melts at 1455 °C, has a density of 8.90 g/cm³ and forms a green chloride. Where in the Periodic Table is this element found?

Q4

Sulfur and selenium, Se, are in the same group of the Periodic Table. From this, we would expect selenium to form compounds having the formulae _____.

- A** Se_2O , Na_2Se and NaSeO_4 **B** SeO_2 , Na_2Se and NaSeO_4
C SeO_2 , Na_2Se and Na_2SeO_4 **D** SeO_3 , NaSe and NaSeO_4

Q5

Which property cannot be predicted from the position of an element in the Periodic Table?

- A** the acidic or basic nature of its oxide
B the formula of its oxide
C the metallic or non-metallic character
D the number of isotopes it has

Q6

Excess bromine is shaken with a mixture of sodium chloride and sodium iodide solutions.

Which substances will the final mixture contain?

- A** bromine, iodine, sodium bromide
B bromine, iodine, sodium bromide, sodium chloride
C bromine, iodine, sodium bromide, sodium iodide
D iodine, sodium bromide, sodium chloride

Q7

Which statement about the Periodic Table is correct?

- A The colour of the elements becomes darker down Group VII.
- B The melting point of the elements increases down Group I.
- C The reactivity of the elements increases down Group VII.
- D The reactivity of the elements decreases down Group I.

Q8

What is the use of argon?

- A to fill balloons
- B to fill light bulbs
- C to fill modern airships
- D to manufacture advertising lights

Q9

Astatine is at the bottom of Group VII in the Periodic Table.

Which row describes the properties of astatine?

	colour	state	reaction with aqueous sodium iodide
A	black	liquid	iodine displaced
B	black	solid	no reaction
C	black	solid	iodine displaced
D	brown	liquid	no reaction

Q10

Which element is likely to be sodium?

	melting point in °C	electrical conductivity	density in g / cm ³
A	98	good	0.97
B	113	poor	2.07
C	1083	good	8.92
D	1535	good	7.86

Answers

Periodic Table Test 2.0

Q1 C

Q2 C

Q3 C

Q4 C

Q5 D

Q6 B

Q7 A

Q8 B

Q9 B

Q10 A

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