

O Level Pure Chemistry MCQs

Metals Test 1.0

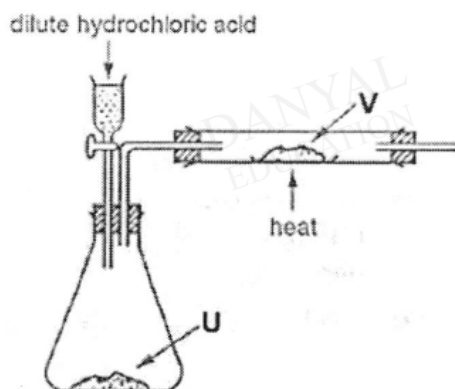
Q1

Which of the following is **not** correct about the type of steel and its use being described?

	type of steel	use
A	low carbon steel	cutting tools
B	low carbon steel	used to make car bodies
C	stainless steel	cutlery
D	stainless steel	surgical instruments

Q2

The diagram shows an experimental set up used to reduce substance **V**. Which of the following pairs could be **U** and **V**?

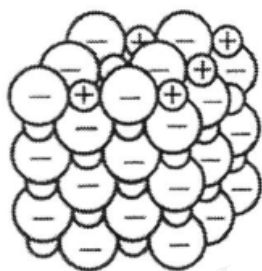


	U	V
A	copper	copper(II) oxide
B	copper	lead(II) oxide
C	lead	lead(II) oxide
D	magnesium	copper(II) oxide

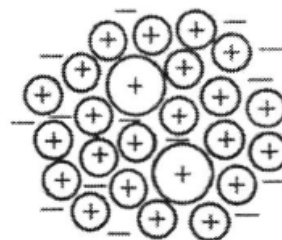
Q3

Which of the following diagrams shows the structure of bronze?

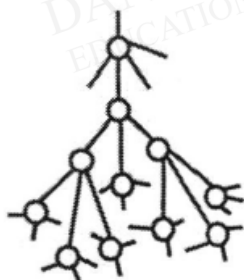
A



B



C

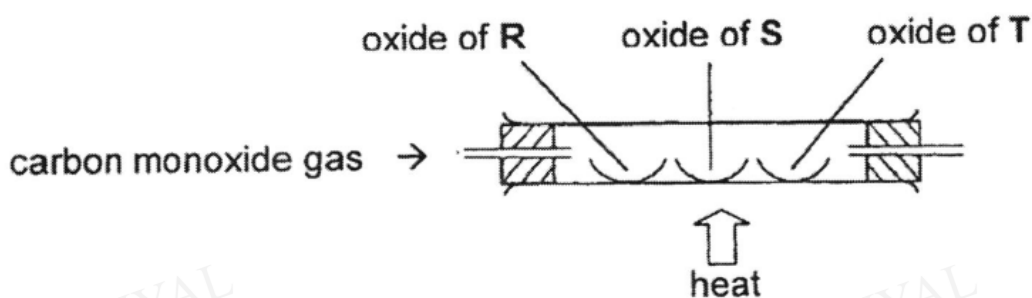


D



Q4

Three metallic oxide powders containing metals, R, S and T are heated strongly in a hard glass tube as shown below. At the same time, carbon monoxide gas is directed through the tube.



Oxide of R glows slightly, oxide of T glows strongly while oxide of S does not undergo any changes.

Based on these observations, which list shows the descending order of reactivity (most reactive first) of metal R, S and T?

- A R, S, T
- B T, R, S
- C S, R, T
- D T, S, R

Q5

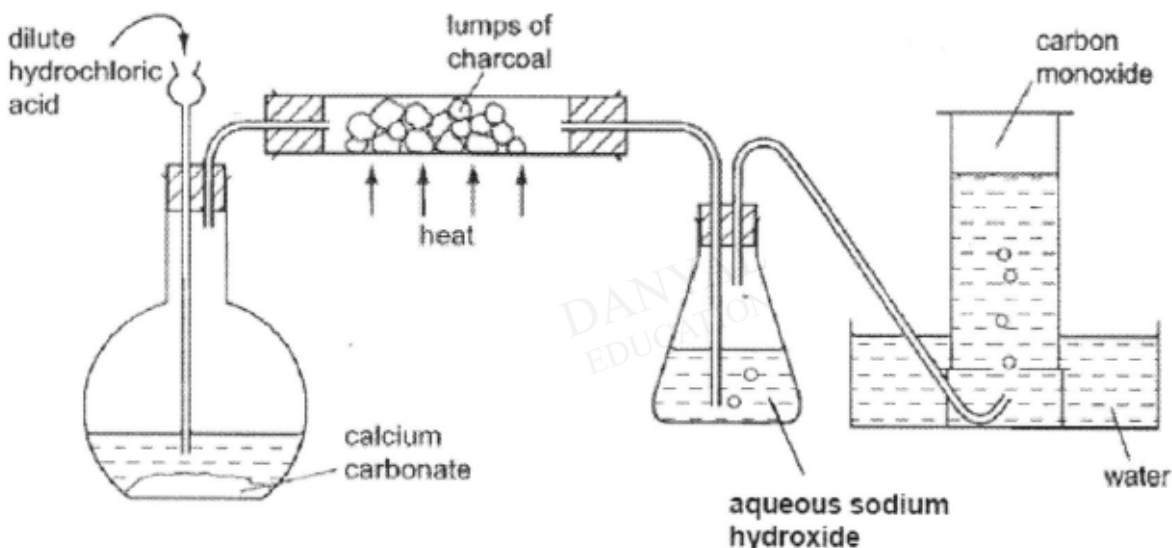
Several properties of metals can be explained by the fact that layers of atoms can slide over each other.

Which one of the following properties of metals is **not** explained by this fact?

- A Metals are malleable.
- B Metals conduct electricity.
- C Pure metals are softer than alloys.
- D Metals are ductile.

Q6

The diagram below is a set-up used to obtain carbon monoxide.



What is the main purpose of the charcoal?

- A To remove the oxygen present
- B To remove the excess acid
- C To reduce the carbon dioxide present
- D To remove moisture from the carbon monoxide

Q7

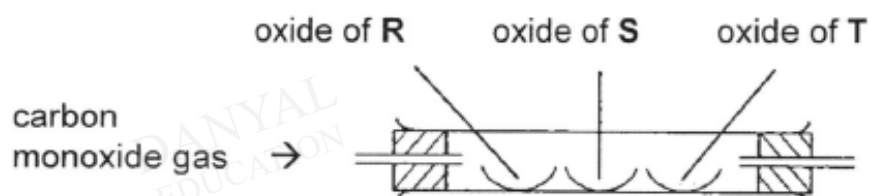
Steel is harder than iron because steel has

- A larger atoms.
- B atoms that are more closely arranged.
- C atoms of different sizes.
- D stronger bonds between the atoms.

Q8

Three metallic oxide powders containing metals **R**, **S** and **T** are heated strongly in a hard glass tube as shown below. At the same time carbon monoxide gas is directed through the tube.

Oxide of **R** reacts slowly, oxide of **T** glows strongly while oxide of **S** does not undergo any changes.

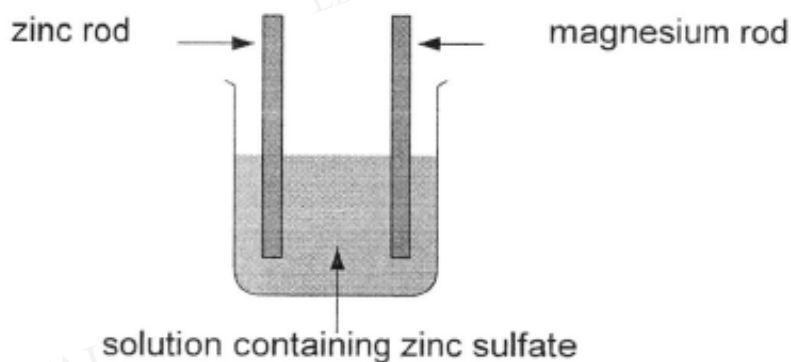


Based on these observations, arrange **R**, **S**, **T** and carbon in descending order of reactivity (most reactive first) is

- A R, S, T, carbon
- B T, R, carbon, S
- C S, carbon, R, T
- D T, carbon, R, S

Q9

The table below shows an experimental set-up.



Which of the following correctly describes the experimental setup?

- A If a wire is connected between the magnesium and zinc rods, electrons will flow from zinc to magnesium.
- B Bubbles of a colourless gas will appear next to the magnesium rod.
- C The concentration of the zinc ions in the solution will increase.
- D Greyish deposits can be immediately observed at the zinc rod.

Q10

An unknown solid **X** has the following properties.

- **X** is stable to heat.
- When dilute acid is added to **X**, effervescence of a colourless gas is observed.
- **X** dissolves in water to form a colourless solution.
- When aqueous sodium hydroxide is added until in excess to the solution, no visible reaction is observed.

What is **X** likely to be?

A calcium metal

B sodium carbonate

C zinc metal

D zinc carbonate

Answers

Metals Test 1.0

Q1 A

Q2 D

Q3 B

Q4 C

Q5 B

Q6 C

Q7 C

Q8 C

Q9 B

Q10 B

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