22 marks

1 (1)

An element is a substance that:
A is made of atoms.
B cannot be broken down into other substances.
C contains water.
D is a metal used in kettles.

2 (1)

The lightest element is:
A helium.
B hydrogen.
C lithium.
D carbon.

3 (1)

Identify the list that contains only non-metals.
A Oxygen, carbon, lithium
B Helium, hydrogen, fluorine
C Mercury, copper, zinc
D Helium, hydrogen, silicon

4 (1)

The component of an atom that is positively charged is the:
A proton.
B electron.
C neutron.
D neutrino.

5 (1)

A compound:
A is made of different elements that are not joined strongly together.
B is made of different elements whose atoms are bonded strongly together.
C has similar characteristics to the elements it is made from.
D is a type of mixture containing only a few different types of atoms.

6 (1)

A group of atoms bonded to each other is called:
A a molecule.
B an alloy.
C a mixture.
D an element.

7 (1)

Which of the following diagrams best represents a compound? (Different sized circles represent different atoms.)
8
Into which two elements can water be broken down?
_____________________________________________________
_____________________________________________________

9
Describe two features of:
(a) metals
_____________________________________________________
_____________________________________________________
(b) non-metals.
_____________________________________________________
_____________________________________________________

10
Give a written definition of:
(a) an element
_____________________________________________________
_____________________________________________________
(b) a compound
_____________________________________________________
_____________________________________________________
(c) a mixture.
_____________________________________________________
11
Use the diagram below to identify examples of:
(a) compounds
(b) elements
(c) mixtures.

12
Use the periodic table to identify the atomic numbers of:
(a) zinc
(b) gold
(c) iodine.