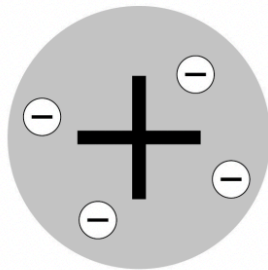


(The nuclear model and the development of the atom)

Q1. (2020)

Figure 2 shows another model of the atom.

Figure 2



What is the name of this model of the atom?

[1 mark]

Q2. (2020)

A scientist fired particles at gold atoms.

Some of these particles were scattered.

The results led to a different model of the atom.

Which type of particle was fired at the gold atoms?

[1 mark]

Tick (✓) **one** box.

Alpha

☐

Electron

☐

Neutron

☐

Proton

☐

Q3. (2020)

Which scientist first suggested that electrons orbit the nucleus at specific distances?

[1 mark]

Tick (✓) **one** box.

Bohr

☐

Chadwick

☐

Mendeleev

☐

Q4.(2023)

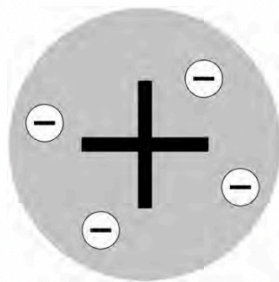
Discoveries in chemistry led to a better understanding of atomic structure.

Atoms were originally thought to be tiny spheres that could not be divided.

The plum pudding model of the atom was then developed.

Figure 10 represents the plum pudding model of the atom.

Figure 10



Describe the plum pudding model of the atom.

[2 marks]

Q5.(2023)

Atoms contain electrons, neutrons and protons.

Write these three particles in order of their discovery.

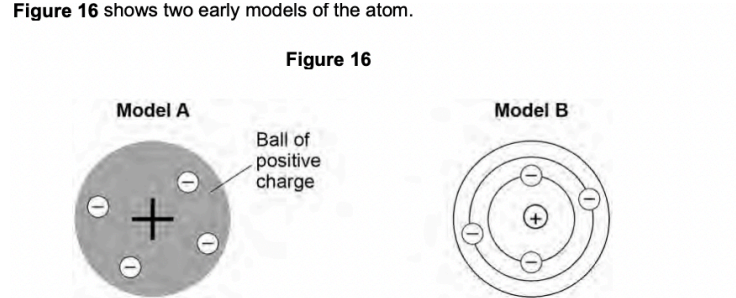
[1 mark]

Earliest _____

Latest _____

Q6.a)(2024)

Figure 16 shows two early models of the atom.



Name the models of the atom shown in Figure 16.

[2 marks]

Model A _____

Model B _____

Q6.b)(2024)

Compare model A with the model of the atom used today.

Use Figure 16.

[4 marks]
