

(The nuclear model and the development of the atom)

Q1. (2020)

plum pudding

Q2. (2020)

alpha

Q3. (2020)

Bohr

Q4.(2023)

a ball of positive charge

with (negative) electrons
embedded

Q5.(2023)

(earliest) electrons
protons
(latest) neutrons

Q6.a)(2024)

(model **A**) plum pudding

(model **B**) Bohr

Q6.b)(2024)

Similarities

- both contain electrons
- both are neutral overall

Differences

- model **A** has no nucleus
or
the model used today has a nucleus
- model **A** has no protons
or
the model used today has protons
- model **A** has no neutrons
or
the model used today has neutrons
- model **A** has positive charge spread throughout the atom
or
model **A** is a ball of positive charge
- the model used today has the positive charge in the centre
- model **A** the electrons are distributed randomly
- the model used today has electrons in shells / energy levels
- the mass was spread throughout model **A**
- the mass is concentrated at the centre of the model used today
- model **A** does not have empty space
- model used today is mostly empty space