

### Question 1

By using a proper diagram, illustrate the Bohr model of the Hydrogen atom and describe the differences between atomic mass and atomic weight of the Hydrogen element.

### Question 2

By using *spdf* notation, write the electron configuration for the following elements:

- i. Ferum
- ii. Copper
- iii. Barium
- iv. Aurum

### Question 3

With regards to electron affinity, explain the term 'electronegativity'.