

# Atomic structure and Isotopes 2

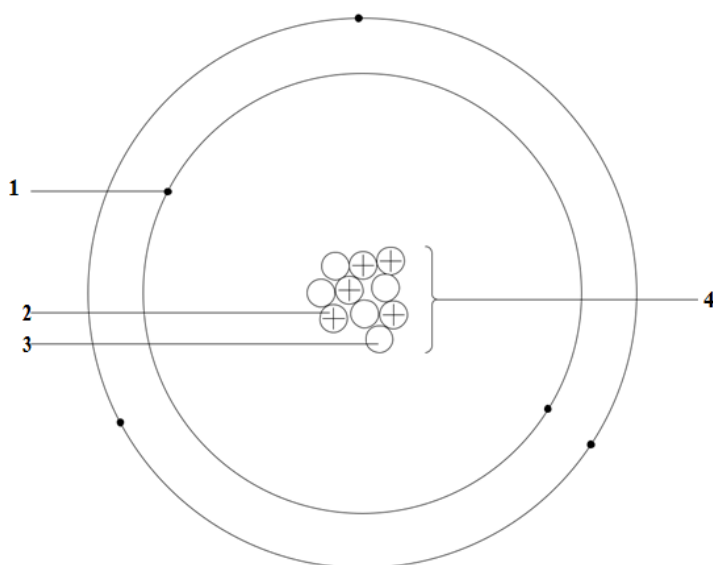
**Q:1** Match words, A, B, C and D, with the labels 1– 4 on the diagram of an atom.

A electron

B nucleus

C neutron

D proton



**Q:2** This question is about the structure of the atom.

Match words, A, B, C, and D, with the numbers 1– 4 in the sentences.

A electrons

B neutrons

C nuclei

D protons

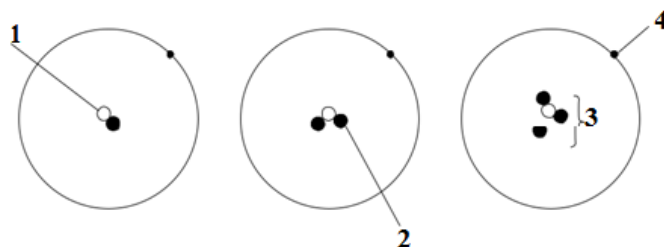
The central part of the atom is surrounded by a number of ... 1 ...

In the central part of the atom, there are positive particles called ... 2 ...

The central parts of atoms are called ... 3 ...

Isotopes of the same element contain different numbers of ... 4 ...

**Q:3** The diagrams show three isotopes of hydrogen.

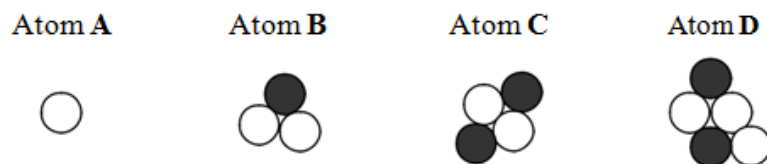


Match words, A, B, C and D, with the labels 1– 4 on the diagrams.

- A electron
- B neutron
- C nucleus
- D proton

**Q:4** The diagram shows the nuclei of four different atoms, A, B, C and D. The protons and neutrons are shaded differently.

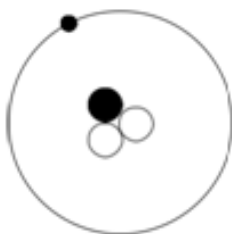
Two of the atoms are isotopes of the same element.



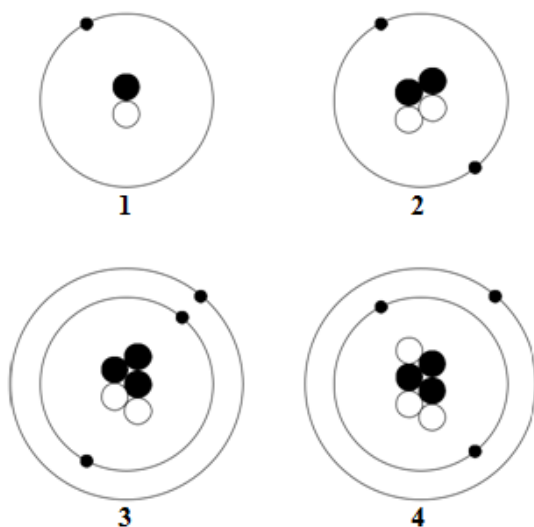
Match atoms, A, B, C and D, with the numbers 1–4 in the table.

1	the nucleus contains one proton
2	the nucleus contains three protons
3	the nucleus is an alpha particle
4	the atom is an isotope of atom C

**Q:5** The diagram shows an isotope of hydrogen. It contains one electron, one proton and two neutrons.



Four other atoms are labelled 1– 4.



Match statements, A, B, C and D, with the atoms labelled 1– 4.

- A contains 5 particles in its nucleus
- B has a nucleus that is identical in structure to an alpha particle
- C has the same number of electrons as atom 3
- D is a different isotope of hydrogen

**TOTAL MARKS=20**