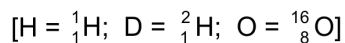


Unit 1: Atomic structure

Subunit 1.1: Particles in the atom and atomic radius

Topical Question No: 1

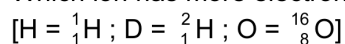
- 3 Which ion has both more electrons than protons and more protons than neutrons?



- A D^- B H_3O^+ C OD^- D OH^-

Topical Question No: 2

- 3 Which ion has more electrons than protons and more protons than neutrons?



- A D^- B H_3O^+ C OD^- D OH^-

Topical Question No: 3

- 2 Use of the Data Booklet is relevant to this question.

In which species are the numbers of protons, neutrons and electrons **all** different?

- A ${}^{19}_9\text{F}^-$ B ${}^{23}_{11}\text{Na}^+$ C ${}^{31}_{15}\text{P}$ D ${}^{32}_{16}\text{S}^{2-}$

Topical Question No: 4

- 32 Use of the Data Booklet is relevant to this question.

Which statements are correct when referring to the atoms ${}^{23}\text{Na}$ and ${}^{24}\text{Mg}$?

- 1 They have the same number of full electron orbitals.
- 2 They have the same number of neutrons.
- 3 They are both reducing agents.

Answer Key

1. Error
2. Error
3. Error
4. Error