

Structure and Properties of Matter Unit Test

I. Multiple Choice: Select the letter of which best answers the question.

- How many atoms of sodium are found in the compound $2\text{Na}_2\text{CO}_3$?
 - 2
 - 4
 - 6
 - 12
- What type of ion does iodine form?
 - Positive one
 - Positive two
 - Negative one
 - Negative two
- Which of the following sentences is true about isotopes?
 - They have the same number of protons but a different number of electrons.
 - They have the same number of protons but a different number of neutrons.
 - They have the same number of protons and neutrons.
 - They have the same number of protons and electrons.
- Rutherford's experiments into the atom suggested that...
 - Atoms were largely made up of empty space
 - Atoms had a small, dense nucleus
 - Electrons orbited the nucleus
 - All of the above
- Substances which are made up of more than one type of atom chemically bonded together are known as:
 - Elements and molecules
 - Compounds and molecules
 - Compounds and elements
 - Atoms and compounds

II. Give the orbital notations for:

- Carbon
- Magnesium ion
- Argon
- Fluoride ion
- Aluminium metal

