

General Chemistry Multiple Choice Questions Chapter 2

1 Which of the following is not a form of energy?

- a Heat
- b Chemical
- c Sound
- d Lunar

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2 Which of the following is one of the fundamental six types of energy?

- a Light
- b Kinetic
- c Potential
- d Nuclear

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3 Kinetic and Potential are forms of what type of energy?

- a Sound
- b Mechanical
- c Chemical
- d Heat

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1 Which of the following is true about Dalton's Atomic Theory?

- a Atoms were viewed as indivisible
- b It was the first statement on the atomic characteristics of matter
- c It was immediately and widely accepted
- d All of his postulates are still true based on today's information

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2 Rutherford's famous experiment that disproved the Plum-Pudding model of the atom utilized _____ and alpha particles, which are simply helium nuclei.

- a Aluminum Foil
- b Tin Foil
- c Silver Foil
- c Iron Foil
- e None of the Above

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3 What substance was symbolized by the "plums" in Thompson's Plum Pudding Model?

- a Positively-charged particles
- b Neutral particles
- c Negatively-charged particles
- d Very massive particles
- e Very light particles

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1 Which of the following is true about



It has...

- a 63 protons
b 29 electrons
c 29 neutrons
d 63 neutrons

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2 How many electrons does ${}_{12}^{24}\text{Mg}^{2-}$ have?

- a 10
b 12
c 14
d 24

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3 How many protons, neutrons, and electrons are in a ${}_{26}^{56}\text{Fe}$ atom?

- a Protons: 26, Neutrons: 30, Electrons: 26
b Protons: 26, Neutrons: 56, Electrons: 26
c Protons: 30, Neutrons: 26, Electrons: 30
d Protons: 56, Neutrons: 26, Electrons: 26
e Protons: 56, Neutrons: 82, Electrons: 56

	2.8
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4 The charge, in Coulombs, of an electron is most nearly

- a $1.602 \times 10^{-19} \text{ C}$
b $-1.602 \times 10^{-19} \text{ C}$
c $1.67 \times 10^{-27} \text{ C}$
d $-1.67 \times 10^{-27} \text{ C}$
e None of the above

	2.8
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5 The mass number is the _____ of the protons _____ neutrons in an atom.

- a sum, and
b sum, but not the
c product, and
d product, but not the
e None of the above

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6 The mass number of an element is represented by the letter _ while the atomic number is represented by

- a A, Z
b Z, A
c A, M
d M, A
e None of the above

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7 The nucleus of an atom is comprised of protons and what?

- a Protons
b Electrons
c Positrons
d Negatrons
e None of the Above

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