(MCC01-AKU-01M)

- What is the mass of 3.0 × 10²³ atoms of neon gas?
 - A) 0.50 grams
 - B) 1.0 grams
 - C) 5.0 grams
 - D) 10.0 grams

(MCC01-AKU-02M)

- A compound has a composition of 40% sulfur and 60% oxygen by mass. What is the empirical formula of this compound?
 - A) SO
 - B) S₂O₃
 - C) S₂O₇
 - D) SO₃

(MCC01-AKU-03E)

- What is the total number of atoms represented in one molecule of (CH₃)₂NH?
 - A) 5
 - B) 8
 - C) 9
 - D) 10

(MCC01-AKU-04E)

- A hydrocarbon has the empirical formula CH₃. A probable molecular formula for this compound could be
 - A) C₃H₃
 - B) C₂H₆
 - C) C₃H₈
 - D) C₄H₈

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(MCC01-AKU-05E)

- What is the number of protons and neutrons in an atom with mass number 89 and atomic number 39?
 - A) 50 protons and 50 neutrons
 - B) 50 protons and 39 neutrons
 - C) 39 protons and 89 neutrons
 - D) 39 protons and 50 neutrons

(MCC01-AKU-06E)

- A compound with a molecular weight of 56 amu has an empirical formula of CH₂. What is its molecular formula?
 - A) C₂H₂
 - B) C₂H₄
 - C) C_4H_8
 - D) C_4H_{10}

(MCC01-AKU-07E)

- What volume of NH₃ can be liberated by 3 litres of N₂.
 - A) 2
 - B) 3
 - C) 5
 - D) 6
 - ANS: (D)

(MCC01-AKU-08E)

- Molecular mass of water (18 gm) means:
 - A) 6.02 x 10²³ molecule of water
 - B) 1 mole of water
 - C) 1 gram mole of water
 - D) All of these
 - ANS: (D)

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(MCC01-AKU-09E)

- What is the mass of an object that has a density of 13 g/mL and a volume of 10 mL?
 - A) 1.3 g
 - B) 0.77 g
 - C) 1.3 g/L
 - D) 130 g
 - ANS: (D)

(MCC01-AKU-10E)

- Which sentence below is incorrect?
 - A) Salads are heterogeneous mixtures.
 - B) NaCl(aq) is a homogeneous mixture.
 - C) Sand and water make a heterogeneous mixture.
 - D) Pure iron is a heterogeneous mixture.

ANS: (D)

(MCC01-AKU-11E)

- Which type of change is different from the other four?
 - A) Baking a potato
 - B) Rusting of an iron nail
 - C) Burning a piece of paper
 - D) Melting an ice cube
 - ANS: (B)

(MCC01-AKU-12E)

- Which of the following is a physical property?
 - A) Color
 - B) Phase
 - C) Odor
 - D) All of these
 - ANS: (D)

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(MCC01-AKU-13H)

A mysterious element has the following relative abundances:

X-34 15% X-35 20% X-36 65%

Which of the following is true?

- A) The atomic mass of this element is closer to 34.1.
- B) The atomic mass of this element cannot be determined without knowing exactly what X is.
- C) A mass spectrophotometer would not be helpful in determining the percentages of the isotopes.
- D) The atomic mass is approximately 35.5.

ANS: (D)

(MCC01-AKU-14E)

- The most unreactive family of elements
 - A) Alkali metals
 - B) Alkaline earth metals
 - C) Noble gases
 - D) Halogens
 - ANS: (C)

(MCC01-AKU-15E)

- Which forms negative ions in an ionic bond or AUR
 - A) Alkali metals
 - B) Alkaline earth metals
 - C) Noble gases
 - D) Halogens
 - ANS: (D)









		G.
	Answer Keys	
	1	S
4	2	D
	3	D
	4	В
-	5	D
	6	С
	7	D
	8	D
	9	D
/	10	D
	11	D
	12	D
	13	D
	14	С
	15	D

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