1

What is the name of the indicated atom in the acetic acid molecules hown above?

- A carbon
- B calcium
- C chromium
- D copper

CEROSE

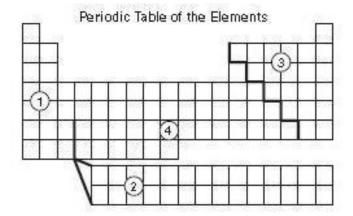
- I ron oxides, such as rust, form when iron metal reacts with oxygen in the air. What are the chemical symbols for the two elements found in iron oxide?
  - A I and O
  - B Ir and O
  - C Fe and O
  - D Pb and O

CSE(070

- What do the elements sulfur (S), nitrogen (N), phosphorus (P), and bromine (Br) have in common?
  - A They are noble (inert) gases.
  - B They are nonmetals.
  - C They have the same thermal conductivity.
  - D They have the same number of protons.

C32504.99

A diagram of the periodic table of the elements is shown below.



In which region of the table would nonmetals be found?

- A 1
- B 2
- C 3
- D 4

C520040

The table below shows the atomic mass of four stable calcium (Ca) isotopes.

Isotope	Atomic Mass
Ca-40	40
Ca-42	42
Ca-43	43
Ca-44	44

## What characteristic is different in each isotope?

- A the position in the periodic table of the elements
- B the net charge of the nucleus
- C the mass of the protons in the nucleus
- D the number of neutrons in the nucleus

- 6 Which class of elements best conducts electricity?
  - A metals
  - B normetals
  - C semimetals
  - D noble (inert) gases

C5000000

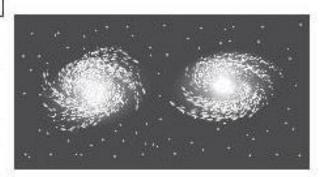
- In a comparison of metals to nonmetals, metals tend to have
  - A lower melting points and greater conductivity than nonmetals.
  - B lower conductivity and lower density than normetals.
  - C higher density and lower melting points than nonmetals.
  - D greater conductivity and higher melting points than nonmetals.

скими

- A student divides several cubes into two groups, based on whether or not each cube can float in water. What property is the student using to classify the cubes?
  - A weight
  - B density
  - C conductivity
  - D mass

CIN66

9



## The galaxies pictured above would best be classified as

- A barred galaxies.
- B spiral galaxies.
- C irregular galaxies.
- D symmetrical galaxies.

CE 4061

- 10 A galaxy is best described as a cluster of
  - A hundreds of stars.
  - B thousands of stars.
  - C millions of stars.
  - D billions of stars.

C25009

- 11 To express the distance between the Milky Way galaxy and other galaxies, the most appropriate unit of measurement is the
  - A meter.
  - B kilometer.
  - C light-year.
  - D astronomical unit.

C22009

## **Answers:**

- 1. A
- **2.** C
- 3. B
- **4.** C
- 5. D
- 6. A
- **7. D**
- 8. B
- 9. B
- 10. D
- 11. C