ALASKA CHEMISTRY · UNIT 1 · 10 QUESTIONS

Matter and Atomic Structure — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **The atomic number of an element is the number of**

- A protons
- B neutrons
- C electrons + neutrons
- D protons + neutrons

Understand It with Pulse | Flag a mistake

2 **Iron filings can be separated from sand by using a**

- A filter
- B magnet
- C condenser
- D freezer

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3 **A sample has mass 200 g and density 4 g per cm³. Its volume, in cm³, is _____**

ANSWER _____

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4 **The maximum number of electrons in the third energy level is**

A 2

B 8

C 18

D 32

Understand It with Pulse | Flag a mistake

5 **Nonmetals are typically**

A shiny and malleable

B good conductors of electricity

C solids at every temperature

D dull and poor conductors

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6 **Using whole number atomic masses (N = 14, H = 1), the molar mass of ammonia, in grams per mole, is ____**

ANSWER _____

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7 **Carbon-12 and carbon-14 differ in their number of**

A protons

B neutrons

C electrons

D energy levels

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8 **Which of these is a homogeneous mixture**

A sand and water

B oil and water

C air

D gravel

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9 **An atom has mass number 31 and 16 neutrons. The number of protons in the atom is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **Elements in the periodic table are arranged in order of increasing**

A atomic mass

B density

C reactivity

D atomic number

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ANSWER KEY

1. A
2. B
3. 50
4. C
5. D
6. 17
7. B
8. C
9. 15
10. D

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