DELAWARE CHEMISTRY · UNIT 1 · 25 QUESTIONS

Matter and Atomic Structure — Practice Test

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1 **Which term is defined as follows: the smallest unit of an element that keeps its properties?**

- A atom
- B element
- C compound
- D mixture

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2 **Which of the following is an example of atom?**

- A gold, made only of gold atoms
- B a single oxygen atom
- C water, made of hydrogen and oxygen
- D salt water before the salt dissolves fully

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3 **Which statement best describes atom?**

A elements are listed on the periodic table

B a compound has properties unlike its elements

C atoms combine to form molecules and compounds

D mixtures can be separated by physical means

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4 **Which term is defined as follows: a pure substance made of only one kind of atom?**

A atom

B element

C compound

D mixture

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5 **Which of the following is an example of element?**

- A a single oxygen atom
- B water, made of hydrogen and oxygen
- C gold, made only of gold atoms
- D salt water before the salt dissolves fully

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6 **Which statement best describes element?**

- A atoms combine to form molecules and compounds
- B a compound has properties unlike its elements
- C mixtures can be separated by physical means
- D elements are listed on the periodic table

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7 **Which term is defined as follows: a substance made of two or more elements chemically bonded?**

A atom

B element

C compound

D mixture

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8 **Which of the following is an example of compound?**

A a single oxygen atom

B gold, made only of gold atoms

C salt water before the salt dissolves fully

D water, made of hydrogen and oxygen

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9 **Which statement best describes compound?**

A a compound has properties unlike its elements

B atoms combine to form molecules and compounds

C elements are listed on the periodic table

D mixtures can be separated by physical means

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10 **Which term is defined as follows: a combination of substances not chemically bonded?**

A atom

B element

C compound

D mixture

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11 **Which of the following is an example of mixture?**

A salt water before the salt dissolves fully

B a single oxygen atom

C gold, made only of gold atoms

D water, made of hydrogen and oxygen

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12 **Which statement best describes mixture?**

A atoms combine to form molecules and compounds

B mixtures can be separated by physical means

C elements are listed on the periodic table

D a compound has properties unlike its elements

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13 **Which term is defined as follows: a positively charged particle in a nucleus?**

A proton

B atom

C element

D compound

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14 **Which of the following is an example of proton?**

A a single oxygen atom

B a particle with a charge of plus one

C gold, made only of gold atoms

D water, made of hydrogen and oxygen

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15 **Which statement best describes proton?**

A atoms combine to form molecules and compounds

B elements are listed on the periodic table

C the number of protons defines an element

D a compound has properties unlike its elements

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16 **Which term is defined as follows: a neutral particle in a nucleus?**

A atom

B neutron

C element

D compound

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17 **Which of the following is an example of neutron?**

A a single oxygen atom

B gold, made only of gold atoms

C a particle with no charge in an atom

D water, made of hydrogen and oxygen

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18 **Which statement best describes neutron?**

A atoms combine to form molecules and compounds

B elements are listed on the periodic table

C a compound has properties unlike its elements

D neutrons add mass without changing charge

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19 **Which term is defined as follows: a negatively charged particle around a nucleus?**

A atom

B element

C electron

D compound

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20 **Which of the following is an example of electron?**

A a single oxygen atom

B gold, made only of gold atoms

C water, made of hydrogen and oxygen

D a particle found in shells around an atom

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21 **Which statement best describes electron?**

A electrons take part in bonding and reactions

B atoms combine to form molecules and compounds

C elements are listed on the periodic table

D a compound has properties unlike its elements

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22 **Which term is defined as follows: an atom of an element with a different number of neutrons?**

A atom

B element

C compound

D isotope

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23 **Which of the following is an example of isotope?**

- A carbon 14 compared with carbon 12
- B a single oxygen atom
- C gold, made only of gold atoms
- D water, made of hydrogen and oxygen

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24 **Which statement best describes isotope?**

- A atoms combine to form molecules and compounds
- B isotopes of an element share chemical behavior
- C elements are listed on the periodic table
- D a compound has properties unlike its elements

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Which term is defined as follows: a chart organizing elements by properties?

A periodic table

B atom

C element

D compound

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ANSWER KEY

1. A
2. B
3. C
4. B
5. C
6. D
7. C
8. D
9. A
10. D
11. A
12. B
13. A
14. B
15. C
16. B
17. C
18. D
19. C
20. D
21. A
22. D
23. A
24. B
25. A

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