CLASSIFICATION AND STRUCTURE OF MATTER - PRACTICE TEST | NEW BRUNSWICK CHEMISTRY 111-112 · UNIT A · 25 QUESTIONS

Classification and Structure of Matter — 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 **An atom has 11 protons and 12 neutrons. Its mass number is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A cation is formed when an atom**

A. loses electrons

B. gains electrons

C. loses protons

D. gains neutrons

Understand It with Pulse | Flag a mistake

3 **A compound is a substance made of two or more elements**

- A chemically bonded
- B physically mixed
- C melted together
- D dissolved together

Understand It with Pulse | Flag a mistake

4 **A mixture can be separated by**

- A chemical reaction only
- B nuclear reaction
- C physical means
- D heating to plasma only

Understand It with Pulse | Flag a mistake

5 **A pure substance has a fixed composition and**

- A variable composition
- B fixed properties
- C no properties
- D only one state

Understand It with Pulse | Flag a mistake

6 **Alkali metals are in group**

- A 2
- B 17
- C 1
- D 18

Understand It with Pulse | Flag a mistake

7 **An anion is formed when an atom**

A loses electrons

B gains electrons

C loses protons

D gains protons

Understand It with Pulse | Flag a mistake

8 **An atom is neutral when its numbers of protons and electrons are**

A different

B both zero

C equal

D both large

Understand It with Pulse | Flag a mistake

9 **An atom of Al has atomic number 13 and mass number 27. Its number of neutrons is**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **An atom of C has atomic number 6 and mass number 12. Its number of neutrons is**

ANSWER _____

Understand It with Pulse | Flag a mistake

11 **An atom of Ca has atomic number 20 and mass number 40. Its number of neutrons is**

ANSWER _____

Understand It with Pulse | Flag a mistake

12 **An atom of Cl has atomic number 17 and mass number 35. Its number of neutrons is**

ANSWER _____

Understand It with Pulse | Flag a mistake

13 **An atom of Fe has atomic number 26 and mass number 56. Its number of neutrons is**

ANSWER _____

Understand It with Pulse | Flag a mistake

14 **An atom of H has atomic number 1. Its number of protons is**

ANSWER _____

Understand It with Pulse | Flag a mistake

15 **An atom of He has atomic number 2. Its number of protons is**

ANSWER _____

Understand It with Pulse | Flag a mistake

16 **An atom of K has atomic number 19 and mass number 39. Its number of neutrons is**

ANSWER _____

Understand It with Pulse | Flag a mistake

17 **An atom of Mg has atomic number 12 and mass number 24. Its number of neutrons is**

ANSWER

Understand It with Pulse | Flag a mistake

18 **An atom of N has atomic number 7 and mass number 14. Its number of neutrons is**

ANSWER

Understand It with Pulse | Flag a mistake

19 **An atom of Na has atomic number 11 and mass number 23. Its number of neutrons is**

ANSWER

Understand It with Pulse | Flag a mistake

20 **An atom of O has atomic number 8 and mass number 16. Its number of neutrons is**

ANSWER

Understand It with Pulse | Flag a mistake

21 **An atom of S has atomic number 16 and mass number 32. Its number of neutrons is**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **An atom of Si has atomic number 14 and mass number 28. Its number of neutrons is**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **An element is a pure substance made of**

A. only one type of atom

B. two types of atoms

C. a mixture

D. a compound only

Understand It with Pulse | Flag a mistake

24 **An atom has 8 protons and 9 neutrons. Its mass number is**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **An atom has 13 protons and 14 neutrons. Its mass number is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 23
2. A
3. A
4. C
5. B
6. C
7. B
8. C
9. 14
10. 6
11. 20
12. 18
13. 30
14. 1
15. 2
16. 20
17. 12
18. 7
19. 12
20. 8
21. 16
22. 14
23. A
24. 17
25. 27

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