PRINCE EDWARD ISLAND CHEMISTRY 11 · UNIT A

Structure and Properties of Chemicals and Chemical Bonds — Practice Test

Prince Edward Island Chemistry 11 • 25 questions

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 of carbon has atomic number 6 and mass number 12. How many neutrons does the atom have**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **Sodium chloride is an example of an**

A ionic compound

B covalent compound

C metallic element

D mixture

Understand It with Pulse | Flag a mistake

3 **An atom of oxygen has atomic number 8 and mass number 16. How many neutrons does the atom have**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **Water is an example of a**

A ionic compound

B covalent compound

C metallic element

D mixture

Understand It with Pulse | Flag a mistake

5 **An atom of sodium has atomic number 11 and mass number 23. How many neutrons does the atom have**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **Ionic compounds are formed by the transfer of**

A protons

B neutrons

C electrons

D photons

Understand It with Pulse | Flag a mistake

7 **An atom of chlorine has atomic number 17 and mass number 35. How many neutrons does the atom have**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **Covalent bonds are formed by the sharing of**

A protons

B neutrons

C ions

D electrons

Understand It with Pulse | Flag a mistake

9 **An atom of calcium has atomic number 20 and mass number 40. How many neutrons does the atom have**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **Metals conduct electricity because their electrons are**

A free to move

B fixed in place

C absent

D shared only in pairs

Understand It with Pulse | Flag a mistake

11 **A neutral atom of carbon has atomic number 6. How many electrons does the neutral atom have**

ANSWER _____

Understand It with Pulse | Flag a mistake

12 **Ionic compounds usually have melting points that are**

A low

B high

C zero

D variable only

Understand It with Pulse | Flag a mistake

13 **A neutral atom of oxygen has atomic number 8. How many electrons does the neutral atom have**

ANSWER _____

Understand It with Pulse | Flag a mistake

14 **Covalent molecular substances usually have melting points that are**

A very high

B zero

C low

D unpredictable

Understand It with Pulse | Flag a mistake

15 **A neutral atom of sodium has atomic number 11. How many electrons does the neutral atom have**

ANSWER _____

Understand It with Pulse | Flag a mistake

16 **A polar molecule has an uneven distribution of**

A mass

B protons

C neutrons

D charge

Understand It with Pulse | Flag a mistake

17 **A neutral atom of chlorine has atomic number 17. How many electrons does the neutral atom have**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **Hydrogen bonding is a strong attraction between molecules containing hydrogen bonded to nitrogen, oxygen, or**

A fluorine

B carbon

C sulphur

D chlorine only

Understand It with Pulse | Flag a mistake

19 **A neutral atom of calcium has atomic number 20. How many electrons does the neutral atom have**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **Diamond is hard because its carbon atoms are joined in a**

A weak ionic lattice

B strong covalent network

C metallic sea

D liquid structure

Understand It with Pulse | Flag a mistake

21 **An atom has 6 protons and 6 neutrons. What is the mass number of the atom**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **Graphite conducts electricity because it has**

A free protons

B ionic bonds only

C delocalised electrons

D no bonds

Understand It with Pulse | Flag a mistake

23 **An atom has 8 protons and 8 neutrons. What is the mass number of the atom**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **The valence electrons of an atom are the electrons in its**

- **A** outermost shell
- **B** innermost shell
- **C** nucleus
- **D** first shell only

Understand It with Pulse | Flag a mistake

25 **An atom has 11 protons and 12 neutrons. What is the mass number of the atom**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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