NUCLEAR TECHNOLOGY, ATOMS, AND CHEMISTRY FOUNDATIONS - PRACTICE TEST | NEW BRUNSWICK SCIENCE 10 (SCIENCE FOR SUSTAINABLE SOCIETIES) · UNIT C · 10 QUESTIONS

Nuclear Technology, Atoms, and Chemistry Foundations — 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 **Carbon 14 has a half life of 5730 years. After 11460 years the fraction remaining as a decimal is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **Radiation can be blocked by shielding because shielding**

A. absorbs or stops the radiation

B. speeds it up

C. creates more radiation

D. changes its colour

Understand It with Pulse | Flag a mistake

3 **Nuclear power plants generate electricity mainly from the energy released by**

A fusion in the plant

B fission

C burning coal only

D falling water

Understand It with Pulse | Flag a mistake

4 **The Sun energy comes mainly from**

A fission

B burning gas

C fusion

D chemical reactions only

Understand It with Pulse | Flag a mistake

5 **A covalent bond forms when atoms**

- A transfer protons
- B lose neutrons
- C gain nuclei
- D share electrons

Understand It with Pulse | Flag a mistake

6 **An ionic bond forms when electrons are**

- A transferred
- B shared equally
- C destroyed
- D hidden

Understand It with Pulse | Flag a mistake

7 **Water is a polar molecule because its shape is bent and oxygen attracts electrons more**

A weakly

B strongly

C evenly

D never

Understand It with Pulse | Flag a mistake

8 **The mass number equals protons plus**

A electrons

B ions

C neutrons

D atoms

Understand It with Pulse | Flag a mistake

9 **Radioactive decay changes one element into another when the nucleus emits**

- A light only
- B heat only
- C sound
- D radiation

Understand It with Pulse | Flag a mistake

10 **Safety with radioactive materials includes limiting time distance and using**

- A shielding
- B water only
- C darkness
- D silence

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	0.25	**5.**	D	**9.**	D
2.	A	**6.**	A	**10.**	A
3.	B	**7.**	B		
4.	C	**8.**	C		

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