NOVA SCOTIA SCIENCE 10 · UNIT B · 25 QUESTIONS

Chemical Reactions — 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 term for a starting substance in a chemical reaction is**

- A Conservation of mass
- B A reactant
- C A decomposition reaction
- D An exothermic reaction

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2 **A reactant means**

- A the rule that mass is not created or lost in a reaction
- B a starting substance in a chemical reaction
- C a reaction where one substance breaks into simpler substances
- D a reaction that releases heat to its surroundings

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3 **The term for a new substance formed in a chemical reaction is**

- A A synthesis reaction
- B A combustion reaction
- C A product
- D An endothermic reaction

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4 **A product means**

- A a reaction where two substances join to make one product
- B a reaction where a substance burns in oxygen
- C a reaction that absorbs heat from its surroundings
- D a new substance formed in a chemical reaction

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5 **The term for the rule that mass is not created or lost in a reaction is**

- A Conservation of mass
- B A decomposition reaction
- C An exothermic reaction
- D An acid

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6 **Conservation of mass means**

- A a reaction where one substance breaks into simpler substances
- B the rule that mass is not created or lost in a reaction
- C a reaction that releases heat to its surroundings
- D a substance that tastes sour and turns blue litmus red

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7 **The term for a reaction where two substances join to make one product is**

- A A combustion reaction
- B An endothermic reaction
- C A synthesis reaction
- D A base

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8 **A synthesis reaction means**

- A a reaction where a substance burns in oxygen
- B a reaction that absorbs heat from its surroundings
- C a substance that feels slippery and turns red litmus blue
- D a reaction where two substances join to make one product

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9 **The term for a reaction where one substance breaks into simpler substances is**

- A A decomposition reaction
- B An exothermic reaction
- C An acid
- D Neutralization

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10 **A decomposition reaction means**

- A a reaction that releases heat to its surroundings
- B a reaction where one substance breaks into simpler substances
- C a substance that tastes sour and turns blue litmus red
- D a reaction between an acid and a base that makes salt and water

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11 **The term for a reaction where a substance burns in oxygen is**

- **A** An endothermic reaction
- **B** A base
- **C** A combustion reaction
- **D** A catalyst

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12 **A combustion reaction means**

- **A** a reaction that absorbs heat from its surroundings
- **B** a substance that feels slippery and turns red litmus blue
- **C** a substance that speeds up a reaction without being used up
- **D** a reaction where a substance burns in oxygen

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13 **The term for a reaction that releases heat to its surroundings is**

- A An exothermic reaction
- B An acid, a sour substance that turns litmus paper red at once
- C Neutralization
- D A precipitate

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14 **An exothermic reaction means**

- A a substance that tastes sour and turns blue litmus red
- B a reaction that releases heat to its surroundings
- C a reaction between an acid and a base that makes salt and water
- D a solid that forms in a liquid during a reaction

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15 **The term for a reaction that absorbs heat from its surroundings is**

- **A** A base, a substance that neutralises acids and feels slippery to touch
- **B** A catalyst
- **C** An endothermic reaction
- **D** The pH scale

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16 **An endothermic reaction means**

- **A** a substance that feels slippery and turns red litmus blue
- **B** a substance that speeds up a reaction without being used up
- **C** a scale from 0 to 14 that measures how acidic or basic a solution is
- **D** a reaction that absorbs heat from its surroundings

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17 **The term for a substance that tastes sour and turns blue litmus red is**

A An acid

B Neutralization

C A precipitate

D A balanced equation

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18 **An acid means**

A a reaction between an acid and a base that makes salt and water

B a substance that tastes sour and turns blue litmus red

C a solid that forms in a liquid during a reaction

D an equation with the same number of each atom on both sides

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19 **The term for a substance that feels slippery and turns red litmus blue is**

- A A catalyst
- B The pH scale
- C A base
- D A coefficient

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20 **A base means**

- A a substance that speeds up a reaction without being used up
- B a scale from 0 to 14 that measures how acidic or basic a solution is
- C a number in front of a formula showing how many units react
- D a substance that feels slippery and turns red litmus blue

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21 **The term for a reaction between an acid and a base that makes salt and water is**

A Neutralization

B A precipitate

C A balanced equation

D Oxidation

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22 **Neutralization means**

A a solid that forms in a liquid during a reaction

B a reaction between an acid and a base that makes salt and water

C an equation with the same number of each atom on both sides

D a process where a substance loses electrons or gains oxygen

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23 **The term for a substance that speeds up a reaction without being used up is**

- **A** The pH scale
- **B** A coefficient
- **C** A catalyst
- **D** Corrosion

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24 **A catalyst means**

- **A** a scale from 0 to 14 that measures how acidic or basic a solution is
- **B** a number in front of a formula showing how many units react
- **C** the slow chemical breakdown of a metal such as rusting iron
- **D** a substance that speeds up a reaction without being used up

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25 **The term for a solid that forms in a liquid during a reaction is**

- A A precipitate
- B A balanced equation
- C Oxidation
- D A reactant

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ANSWER KEY

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

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