



CHEMISTRY

BOOKS - ICSE

LANGUAGE OF CHEMISTRY

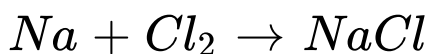
Intext Questions

1. Define the term catalyst. Write one example where it is used.



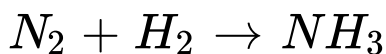
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2. Name the reactants and product in the skeletal equation and balance



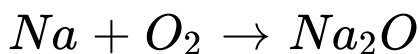
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3. Name the reactants and product in the skeletal equation and balance



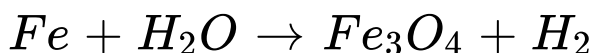
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4. Name the reactants and product in the skeletal equation and balance



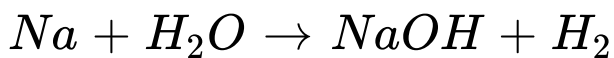
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5. Name the reactants and product in the skeletal equation and balance



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6. Name the reactants and product in the skeletal equation and balance



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Exercise

1. What is a chemical reaction?



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2. What is a chemical reaction ?



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3. Why do we need to balance chemical equations?



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4. State the conditions necessary for a chemical change or reaction to take place.





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5. Differentiate between :

Reactants and products



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6. Differentiate between :

Chemical reaction and chemical equation



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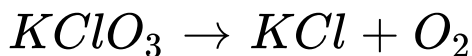
7. Differentiate between :

A balanced and a skeletal chemical equation.



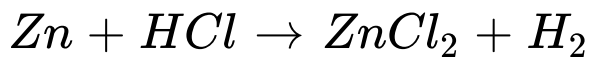
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8. Balance the following equation :



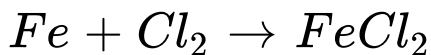
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9. Write word equations for the skeletal equation:



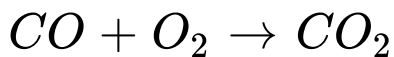
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10. Write word equations for the skeletal equation:



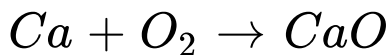
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11. Write word equations for the skeletal equation:



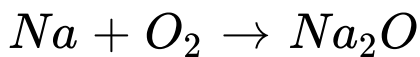
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12. Write word equations for the skeletal equation:



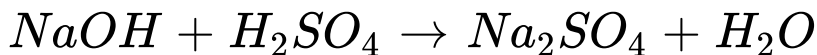
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13. Write word equations for the skeletal equation:



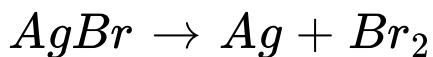
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14. Write word equations for the skeletal equation:



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15. Write word equations for the skeletal equation:



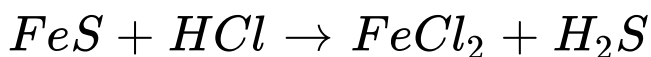
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16. Write word equations for the skeletal equation:



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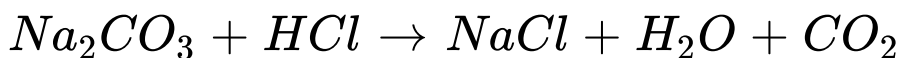
17. Balance the chemical equation:





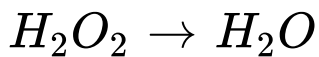
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18. Balance the chemical equation:



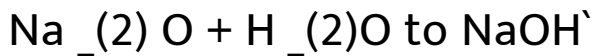
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19. Balance the chemical equation:



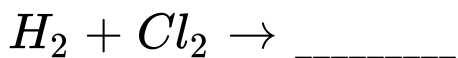
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20. Balance the chemical equation:



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21. By direct combination



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22. Write your observations for the chemical reactions and name the product formed :

When sugar is heated.



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23. Write your observations for the chemical reactions and name the product formed :

When manganese dioxide is added to potassium chlorate and heated.



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24. Write your observations for the chemical reactions and name the product formed :

When dilute acetic acid is poured on baking soda.



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25. Write your observations for the chemical reactions and name the product formed :

When an aqueous solution of sodium chloride

is mixed with an aqueous solution of silver nitrate.



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26. Write your observations for the chemical reactions and name the product formed :

When ammonium chloride is heated with sodium hydroxide.



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27. Write your observations for the chemical reactions and name the product formed :

When water is added to quick lime?



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28. Write skeletal equations for the following word equations.

calcium carbonate \rightarrow calcium oxide + carbon dioxide



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29. Write a chemical equation for the following word equation and balance them.

Carbon + Oxygen \rightarrow Carbon dioxide



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30. Write symbolic representation for the word equations and balance

Calcium oxide + Water \rightarrow Calcium hydroxide



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31. Write symbolic representation for the word equations and balance

Aluminium + Chlorine \rightarrow Aluminium chloride



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32. Write symbolic representation for the word equations and balance

Iron + Sulphur \rightarrow Iron sulphide



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33. Write symbolic representation for the word equations and balance

Sodium carbonate + Hydrochloric acid (dil)

→ Sodium chloride + Water + Carbon dioxide



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34. Write symbolic representation for the word equations and balance

Barium chloride + Sodium sulphate →

Barium sulphate + Sodium chloride



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35. Write symbolic representation for the word equations and balance

Iron sulphide + Hydrochloric acid (dil) \rightarrow

Iron (II) chloride + Hydrogen sulphide



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36. Write symbolic representation for the word equations and balance

Calcium + Water \rightarrow Calcium hydroxide



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Objective Type Questions Fill In The Blanks

1. The substances which undergo chemical change are called



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2. The substances formed as a result of a chemical reaction are called.....



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3. During a chemical reaction, transfer of Takes place.



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4. The basic condition necessary for a chemical reaction is



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5. In some chemical reactions, an insoluble..... is formed when two solutions are mixed.



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1. No new substance is formed during a chemical reaction.....



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2. When potassium iodide solution is added to lead acetate solution, a red precipitate is formed.



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3. A black residue is formed when sugar is heated.



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4. When iron and sulphur are heated together a grey mass is formed which is attracted by a magnet.



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Objective Type Questions Multiple Choice Questions

1. A chemical equation is a statement that describes a chemical change in terms of

A. Symbols and formulae

B. Energy

C. Number of atoms

D. Colours

Answer:





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2. Balancing a chemical equation is based on

- A. Law of conservation of mass
- B. Mass of reactants and products
- C. Symbols and formulae
- D. None of the above

Answer:



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3. Copper carbonate when heated, it turns :

A. Blue

B. Green

C. Black

D. Yellow

Answer:



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4. When lead acetate solution is added to potassium iodide solution, a precipitate is formed which is

A. Red

B. Yellow

C. White

D. Black

Answer:



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5. The gas which has a rotten egg smell is:

A. Ammonia

B. Hydrogen

C. Hydrogen sulphide

D. Oxygen

Answer:



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6. When sodium carbonate reacts with dilute hydrochloric acid, the gas evolved is

A. Carbon-dioxide

B. Nitrogen

C. Oxygen

D. Hydrogen

Answer:



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