



CHEMISTRY

BOOKS - BAL BHARTI

CHEMICAL REACTIONS AND EQUATIONS

Find Out

1. What are the other uses of silver nitrate in everyday life?



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2. Name the following

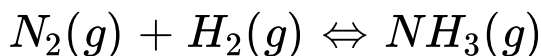
How are the blackened silver utensils and patinated (greenish) brass utensils cleaned ?



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Use Your Brain Power

1. Write down the steps in balancing the equation



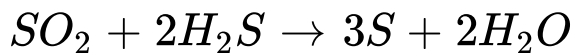
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2. Write down a balanced chemical equation for the following reaction. Calcium chloride + Sulphuric acid \rightarrow Calcium sulphate + Hydrogen chloride



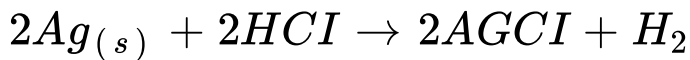
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3. Write down the physical states of reactants and products in following reaction.



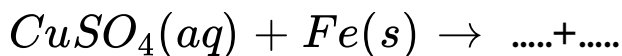
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4. Write down the physical states of reactants and products in following reaction.



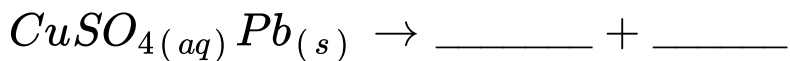
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5. Complete the following reactions and give names of the products.



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6. Complete the following reactions and give names of the products.



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7. What is the difference in the process of dissolution and a chemical reaction?



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8. Does a new substance form when a solute dissolves in a solvent?

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9. Which is the oxidant used for purification of drinking water?

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10. Why is potassium permanganate used for cleaning of water tanks?

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11. Answer the following questions :

Some more examples of redox reaction are as follows. Identify the reductants and oxidants from them.



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12. If oxidation means losing electrons, what is meant by reduction?

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13. Write the reaction of formation of Fe^{2+} by the reduction Fe^{3+} by making use of the symbol(e)?

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Think About It

1. The luster of the surface of the aluminium utensils in the house is lost after a few days. Why

does this happen?



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Exercise

1. Choose the correct option from the bracket and explain the statement giving reason:

(oxidation, displacement, electrolysis, reduction, zinc, copper, double, displacement, decomposition)

To prevent rusting, a layer of ___ metal is applied on iron sheets



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2. Choose the correct option from the bracket and explain the statement giving reason:

(oxidation, displacement, electrolysis, reduction, zinc, copper, double, displacement, decomposition)

The conversion of ferrous sulphate to ferric sulphate is _____ reaction.



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3. Choose the correct option from the bracket and explain the statement giving reason:

(oxidation, displacement, electrolysis, reduction, zinc, copper, double, displacement, decomposition)

When electric current is passed through acidulated water _ of water takes place.



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4. Choose the correct option from the bracket and explain the statement giving reason:

(oxidation, displacement, electrolysis, reduction,

zinc, copper, double, displacement, decomposition

)

Addition of an aqueous solution of $ZnSO_4$ to an aqueous solution of $BaCl_2$ is an example of __ reaction



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5. What is the reaction called when oxidation and reduction take place simultaneously? Explain with one example.



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6. How can the rate of the chemical reaction namely decomposition of hydrogen peroxide be increased



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7. Explain the term reactant and product giving examples.



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8. Explain the types of reaction with reference to oxygen and hydrogen. Illustrate with example



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9. Explain the similarity and difference in two events, namely adding NaOH to water and adding CaO to water



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10. Explain the following terms with examples.

Endothermic reaction



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11. Explain the following terms with examples.

Combination reaction



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12. Explain the following terms with examples.

Balanced equation

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13. Explain the following terms with examples.

Displacement reaction

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14. Give scientific reasons

When the gas formed on heating limestone is passed through freshly prepared lime water, the lime water turns milky.

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15. Give scientific reasons

It takes time for pieces of shahabad tiles to disappear in HCl , but its powder disappears rapidly.



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16. Give scientific reasons

While preparing dilute sulphuric acid from concentrated sulphuric acid in the laboratory, the concentrated sulphuric acid is added slowly to water with constant stirring.



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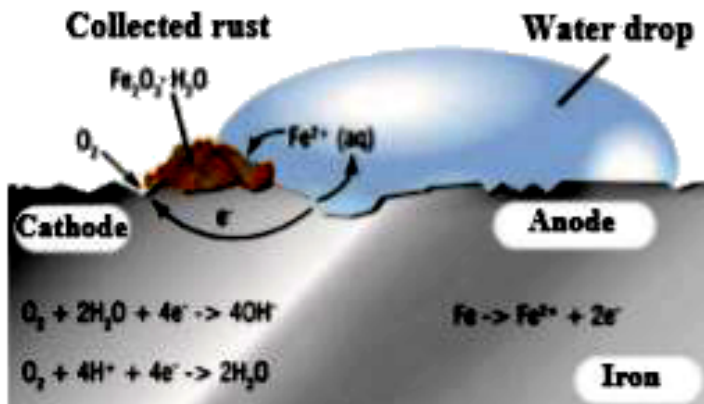
17. Give scientific reasons

It is recommended to use air tight container for storing oil for long time.



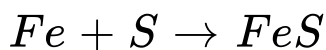
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18. Observe the following picture a write down the chemical reaction with explanation.



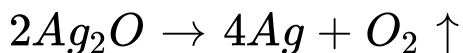
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19. Identify from the following reactions the reactants that undergo oxidation and reduction.



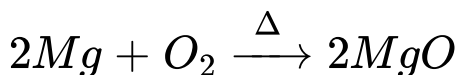
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20. Identify from the following reactions the reactants that undergo oxidation and reduction.



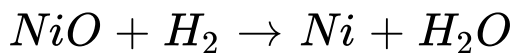
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21. Identify from the following reactions the reactants that undergo oxidation and reduction.



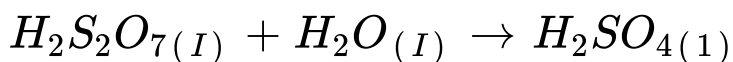
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22. Identify from the following reactions the reactants that undergo oxidation and reduction.



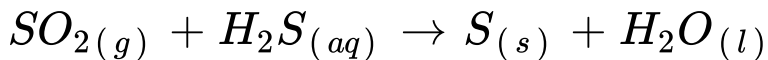
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23. Balance the following equation stepwise



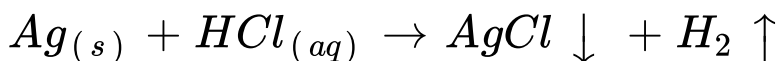
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24. Balance the following equation stepwise.



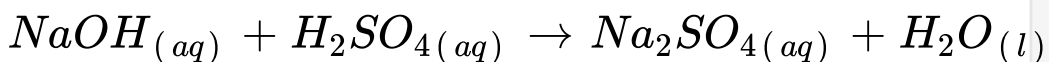
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25. Balance the following equation stepwise.



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26. Balance the following equation stepwise.



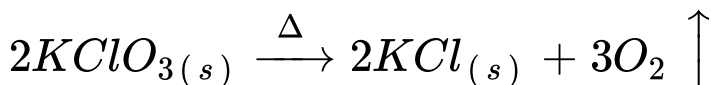
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27. Identify the endothermic and exothermic reaction.



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28. Identify the endothermic and exothermic reaction.



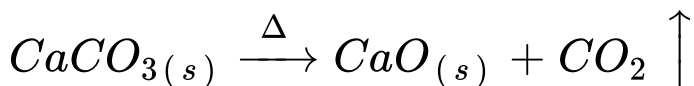
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29. Identify the endothermic and exothermic reaction.



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30. Identify the endothermic and exothermic reaction.



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31. Match the column in the following table

Reactants	Products	Type of chemical reaction
$\text{BaCl}_2(\text{aq}) + \text{ZnSO}_4(\text{aq})$	$\text{H}_2\text{CO}_3(\text{aq})$	Displacement
$2\text{AgCl}(\text{s})$	$\text{FeSO}_4(\text{aq}) + \text{Cu}(\text{s})$	Combination
$\text{CuSO}_4(\text{aq}) + \text{Fe}(\text{s})$	$\text{BaSO}_4 \downarrow + \text{ZnCl}_2(\text{aq})$	Decomposition
$\text{H}_2\text{O}(\text{l}) + \text{CO}_2(\text{g})$	$2\text{Ag}(\text{s}) + \text{Cl}_2(\text{g})$	Double displacement



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