CHEMICAL REACTION TYPES - #1

Write balanced chemical equations for...

- 1. Hydrogen gas and chlorine gas explode when exposed to light.
- 2. Sulphuric acid is reacted with sodium hydrogen carbonate.
- 3. Solutions of barium nitrate and sodium sulphate react.
- 4. Ethane gas (C₂H₆) burns completely in air.
- 5. Nitrogen gas and hydrogen gas combine.
- 6. Lead(IV) oxide is decomposed by heat.
- 7. Silver nitrate solution reacts with sodium chloride solution.
- 8. Potassium metal reacts on cold water.
- 9. Aluminum oxide is dissolved in water.
- 10. Zinc metal reacts in a solution of copper(II) nitrate.
- 11. Chlorine gas is bubbled through a solution of sodium iodide.
- 12. Molten sodium chloride is decomposed by electrolysis.
- 13. Nitric acid solution is added to sodium hydroxide solution.
- 14. Sulphur dioxide gas is bubbled into water.
- 15. Phosphoric acid neutralized a solution of magnesium hydroxide.
- 16. Magnesium metal reacts slowly in cold water.
- 17. Calcium carbonate is etched by hydrochloric acid solution.
- 18. Gasoline (C₈H₁₈) burns incompletely in air. No solid products are formed.
- 19. Iron(III) chloride solution reacts with calcium metal.
- 20. Copper metal reacts is sulphur vapour.
- 21. Hydrogen sulphide gas is bubbled through arsenic(III) chloride solution.
- 22. Aluminum iodide is heated strongly in the absence of air.
- 23. Calcium hydrogen carbonate is added to sulphuric acid solution.
- 24. Sulphuric acid reacts with potassium hydroxide solution.
- 25. Iron forms rust in damp air.