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CHAPTER 7

Equations

Write a balanced chemical equation to represent each of the following chemical reactions:
Identify reaction type.

1. iron + sulfur — iron (II) sulfide

2. zinc + cupric sulfate — zinc sulfate + copper (cupric means copper (II)

3. silver nitrate + sodium bromide — sodium nitrate + silver bromide

4. potassium chlorate (heated) — potassium chloride + oxygen

5. water (electricity) — hydrogen + oxygen

6. mercury (II) oxide (heated) — mercury + oxygen

7. potassium iodide + lead (II) nitrate — lead (II) iodide + potassium nitrate

8. aluminum + oxygen — aluminum oxide

9. magnesium chloride + ammonium nitrate — magnesium nitrate + ammonium chloride

10. iron (III) chloride + ammonium hydroxide — iron (III) hydroxide + ammonium chloride

11. sodium peroxide + water — sodium hydroxide + oxygen (NaO)

12. iron (III) oxide + carbon — iron + carbon monoxide

13. iron + water — hydrogen + iron (III) oxide

14. iron (III) chloride + potassium hydroxide — potassium chloride + iron (III) hydroxide

15. aluminum + sulfuric acid — aluminum sulfate + hydrogen

(continued)

16. sodium carbonate + calcium hydroxide → sodium hydroxide + calcium carbonate

17. carbon dioxide + water → carbonic acid

18. phosphorus + oxygen → diphosphorus pentoxide

19. sodium + water → sodium hydroxide + hydrogen

20. zinc + sulfuric acid → zinc sulfate + hydrogen

21. aluminum sulfate + calcium hydroxide → aluminum hydroxide + calcium sulfate

22. calcium oxide + water → calcium hydroxide

23. iron + copper (I) nitrate → iron (II) nitrate + copper

24. iron (II) sulfide + hydrochloric acid → hydrogen sulfide + iron (II) chloride

25. potassium oxide + water → potassium hydroxide

26. ammonium sulfide + lead (II) nitrate → ammonium nitrate + lead (II) sulfide

27. mercury (II) hydroxide + phosphoric acid → mercury (II) phosphate + water

28. potassium hydroxide + phosphoric acid → potassium phosphate + water

29. calcium chloride + nitric acid → calcium nitrate + hydrochloric acid

30. potassium carbonate + barium chloride → potassium chloride + barium carbonate

31. magnesium hydroxide + sulfuric acid → magnesium sulfate + water

32. sulfur dioxide + water → sulfurous acid