Chapter 5 Test Key

1. (a) negative
2. (c) electric charge can neither be created nor destroyed
3. (b) opposite
4. (a) the same
5. (c) opposite
6. (c) Benjamin Franklin
7. (d) induction
8. (a) the force between two charged bodies is directly proportional to the product of their charge and inversely proportional to the square of the distance separating them
9. (a) True
10. (a) True
11. (b) current
12. (b) less
13. (a) more
14. (b) less
15. (b) current is directly proportional to voltage and inversely proportional to resistance
16. I = V / R = (6.0 volts) / (16 ohms) = 0.375 amps
17. (a) lack of caution around chemicals
18. (a) active
19. (a) an acid
20. (d) valence
21. sodium bicarbonate
22. *NaOH*
23. (a) carbonate
24. (b) photoelectric effect
25. $Mg(OH)_2$
26. (a) True
27. (a) True
28. (b) limestone
29. +2
30. -2
31. -1
32. +1
33. -2
34. carbonate, carbonate, carbonate
35. barium sulfate
36. (a) True
37. (a) True
38. lithium
39. carbon
40. fluorine
41. sodium
42. silicon
43. chlorine
44. (b) chemical properties of the elements repeat
45. (b) vertical column
46. (a) family
47. (a) True
48. (b) Challenges often reveal hidden aspects of our personalities.
49. (c) Doing or writing about something of lasting value are ways to be remembered long after death.
50. (a) Because scientific laws are so connected and interdependent, we can logically think they all come from the same intelligent mind.