

## **Circuit Lab Answer Key**

1. B
2. B
3. C
4. A
5. B
6. C
7. A
8. C
9. C
10. D
11. B
12. A
13. A
14. C
15. D
16. A
17. A
18. B
19. C
20. B
21. D
22. D
23. D
24. A
25. B
26. B
27. A
28. A
29. A
30. B
31. B
32. B
33. A
34. B
35. B
36. A
37. B
38. B
39. B
40. A
41. B
42. 2 Amps

43. 250 Ohms
44. 10 Amps
45. 2 Volts
46. 100 Coulombs
47. Ampere's Force Law
48. Faraday's Law of induction
49. Coulomb's Law
50. Gauss's Law of Magnetism
51. Ohm's Law
52. Voltage, Amps, and Resistance
53.  $V=IR$
54. DC is an electric current that has a constant direction, while AC is an electric current that reverses direction.
55. To protect electrical circuits by interrupting the flow.
56. Silver, copper, gold, and aluminum
57. Glass, diamond, rubber, and wood
58. The rubber gloves acts as an insulator and protects the worker from receiving an electric shock.